

Indiana Trauma Registry

Statewide Quarter 2 Data Report

April 1, 2015—June 30, 2015

8,605 Incidents

95 Total Hospitals Reporting

Level I and II:	9 facilities	42.6% of data
Level III:	10 facilities	16.6% of data
(Non-Trauma) Hospitals:	76 facilities	40.8% of data

For Quarter 2 2015, which spanned from April 1, 2015 to June 30, 2015, there were 8,605 incidents reported to the Indiana Trauma Registry at the Indiana State Department of Health. There were 95 hospitals that reported data, of which 9 were level I or II trauma centers and 10 were level III trauma centers. There were 6 hospitals that either started to report again or were new to reporting during this quarter compared to the previous quarter, while 6 hospitals dropped off from reporting this quarter from the previous quarter. A map of the state with the reporting hospitals can be found on page 50. Trauma centers represented 59.2% of the data. There were 2,583 incidents reported for April, 3,100 reported for May, and 2,922 incidents reported for June.

The content of this report has changed due to suggestions and additions requested by the Indiana State Trauma Care Committee at the February 20, 2015 meeting. Explanations of the changes requested and adapted from the ISTCC meeting can be found on page 21.

Some general reminders include that the blue columns represent an Indiana average, red columns represent level I and II trauma centers, green columns represent level III trauma centers and orange non-trauma centers. If a single percent is listed above a group of bars, the percent listed represents the average for Indiana. If a number is listed above a group of bars, it represents the count for Indiana. The category 'All Transfers' denotes the patient group where ED Disposition = Transferred to Another Hospital. **The category 'Linked Transfers' represents the patient group for whom the initial hospital and final hospital information could be linked.**

The E-codes used in this report follow the ICD-9 CDC matrix of external cause of injury.

Definitions:

Direct Admit: Patient is admitted directly to the hospital and does not spend time in Emergency Department. The ED Length of Stay should reflect a direct admittance.

External Cause of Injury: ICD-9-CM codes that are used to describe the mechanism or external factor that caused the injury event.

Trauma Type: The classification of the force applied to the body. Trauma type categories include blunt, penetrating, thermal, and other trauma.

Injury Severity Score: An anatomical scoring system defined as the sum of the three highest squared maximum Abbreviated Injury Scale (AIS) values to account for multiple injuries in the six body regions.

Acronyms:

E-code: External Cause of Injury	MVC: Motor Vehicle Collision
ED: Emergency Department	OR: Operating Room
ICU: Intensive Care Unit	Ps: Probability of Survival
ISS: Injury Severity Score	CAHs: Critical Access Hospital
LOS: Length of Stay	

Calculations:

$Ps = 1/(1+e^{-b})$ where $b=b_0+b1(RTS) + b2(ISS) + b3(\text{Age Index})$

Total GCS = Verbal GCS + Motor GCS + Eye GCS

$RTS = 0.94 * GCS + 0.73 * SBP + 0.29 * RR$

$ISS = (AIS)^2 + (AIS)^2 + (AIS)^2$



Indiana State
Department of Health
Trauma and Injury Prevention

Indiana Trauma Registry

Statewide Quarter 2 Data Report

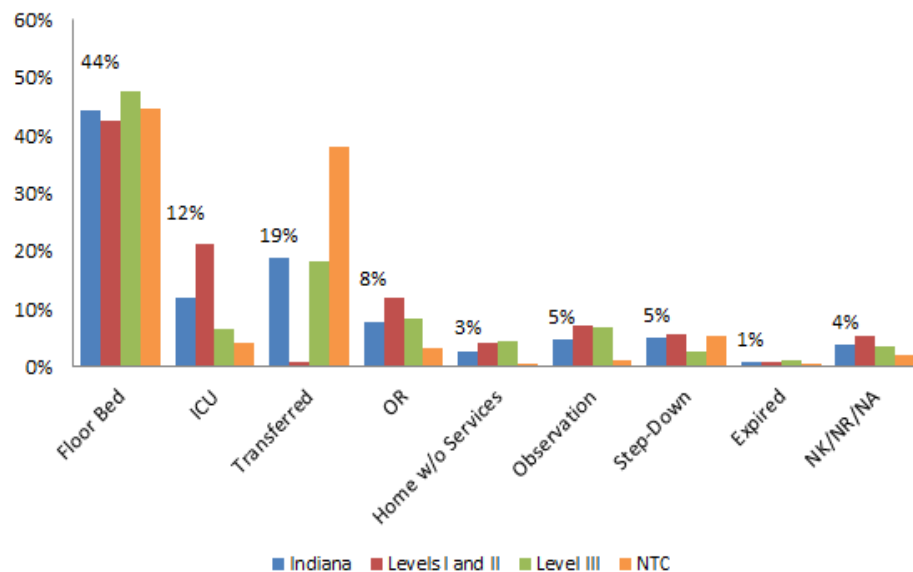
April 1, 2015—June 30, 2015

8,605 Incidents

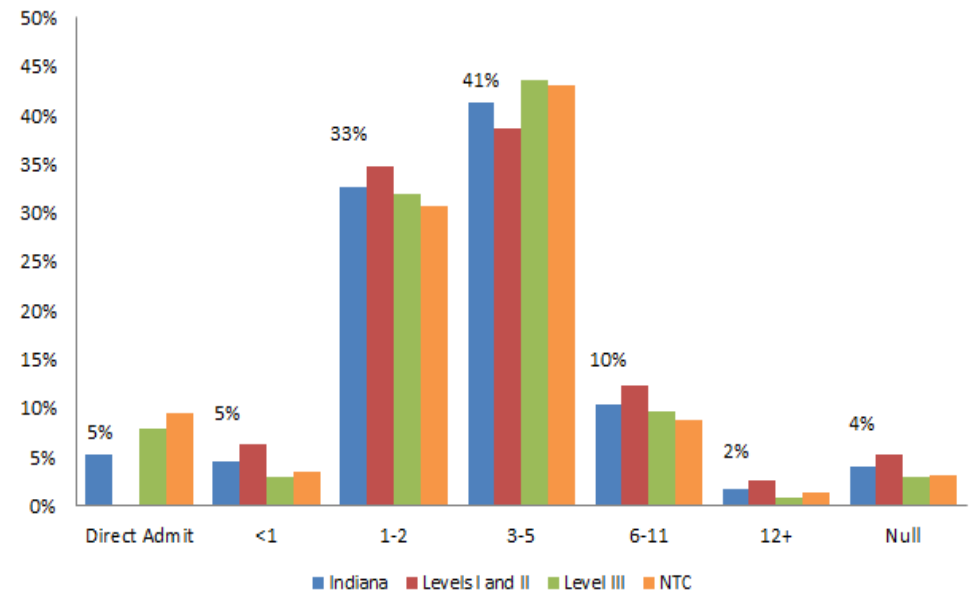
95 Total Hospitals Reporting

Level I and II:	9 facilities	42.6% of data
Level III:	10 facilities	16.6% of data
(Non-Trauma) Hospitals:	76 facilities	40.8% of data

ED Disposition by Percentage



ED Length of Stay (Hours)



Indiana Trauma Registry

Statewide Quarter 2 Data Report

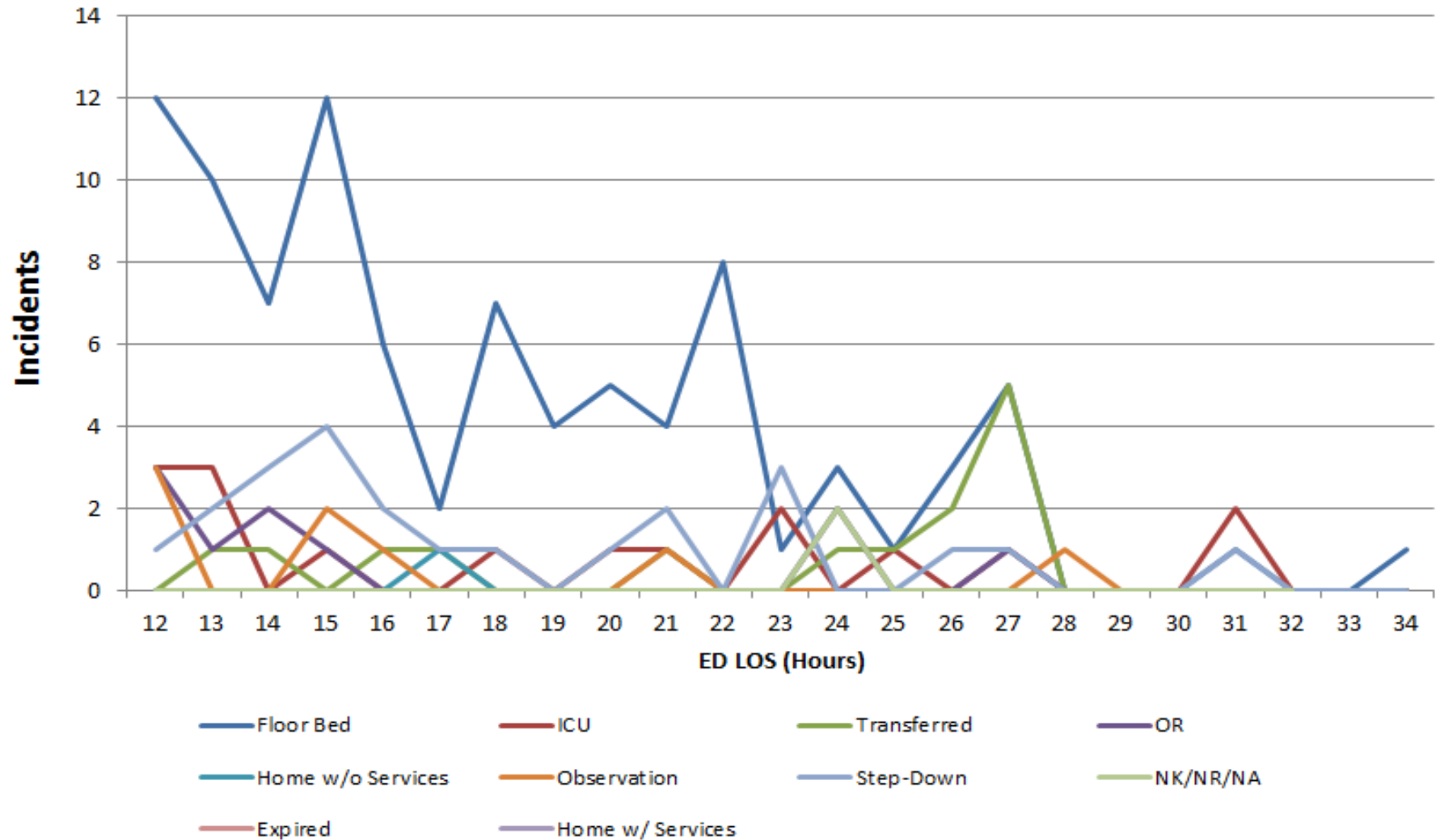
April 1, 2015—June 30, 2015

8,605 Incidents

95 Total Hospitals Reporting

Level I and II:	9 facilities	42.6% of data
Level III:	10 facilities	16.6% of data
(Non-Trauma) Hospitals:	76 facilities	40.8% of data

ED Disposition for ED LOS >12 Hours



N=168

*No cases expired

Indiana Trauma Registry

Statewide Quarter 2 Data Report

April 1, 2015—June 30, 2015

8,605 Incidents

95 Total Hospitals Reporting

Level I and II:	9 facilities	42.6% of data
Level III:	10 facilities	16.6% of data
(Non-Trauma) Hospitals:	76 facilities	40.8% of data

ED LOS > 12 Hours, N=121

Facilities	85 Level I and II 8 Level III 28 Non-trauma Centers	ISS	68 (1-8 cat); 45 (9-15 cat); 6 (16-24); 1 (25-44); 1 (No ISS)
Average Distance from Scene to Facility	6.2 Miles	RTS—Systolic	4 (2-4)
Transport Type	90 Ambulance; 5 Helicopter, 26 Private Vehicle/Walk-In	RTS—GCS Scale	3.9 (0-4)
Trauma Type	111 Blunt; 10 Penetrating	RTS—Resp. Scale	3 (3-4)
Cause of Injury	63 Fall; 31 MVC; 9 Struck by, Against; 4 Firearm; 6 Transport; 6 Cut/Pierce; 2 Bicyclist	RTS	7.4 (3.8-7.8)
Signs of Life	110 Yes; 11 No	B Value	3.97 (0-5.6)
Age	57.5 Years (6-95 Years)	Ps	0.97 (0.45-1)
Gender	62 Female; 59 Male	Resp. Assistance	6 Yes; 113 No; 2 Unknown
Interfacility Transfer	26 Yes; 95 No	ED LOS	18.5 (12-34)
Region	23 North; 73 Central; 6 South; 19 Missing	ED Disposition	1 AMA; 67 Floor bed; 1 Home w/o services; 11 ICU; 4 Observation; 9 OR; 21 Step-down; 6 Transferred; 1 NA

-Region was created from injury zip code. Missing = no injury zip or injury zip from out of state.

-Numbers represent counts per category or mean with minimum and maximum in parentheses.

Indiana Trauma Registry

Statewide Quarter 2 Data Report

April 1, 2015—June 30, 2015

8,605 Incidents

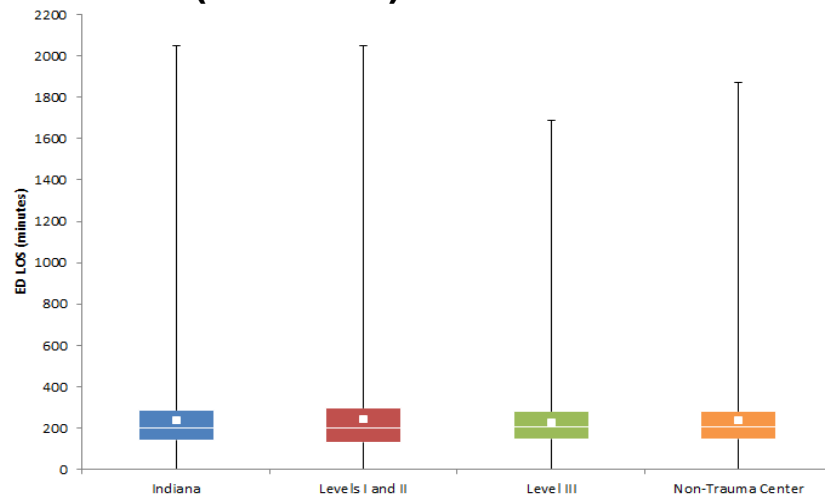
95 Total Hospitals Reporting

Level I and II: 9 facilities 42.6% of data

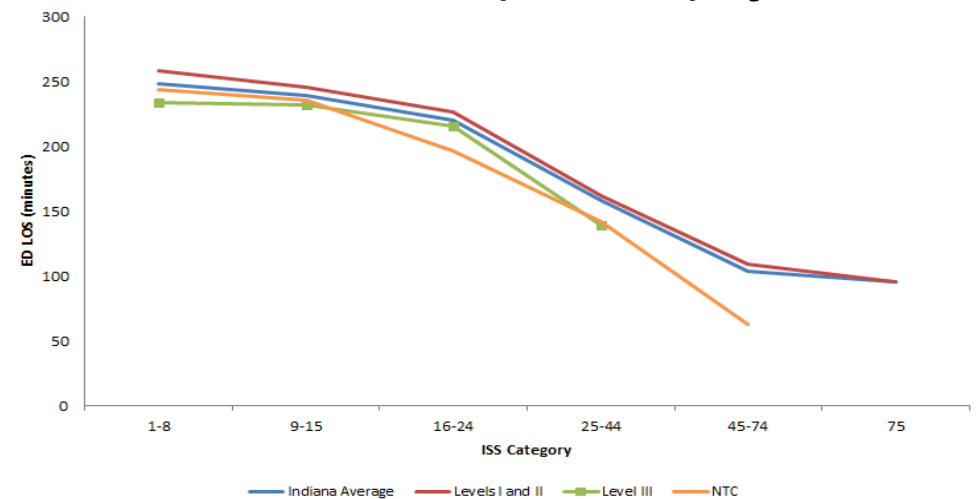
Level III: 10 facilities 16.6% of data

(Non-Trauma) Hospitals: 76 facilities 40.8% of data

ED LOS (Minutes) - All Patients



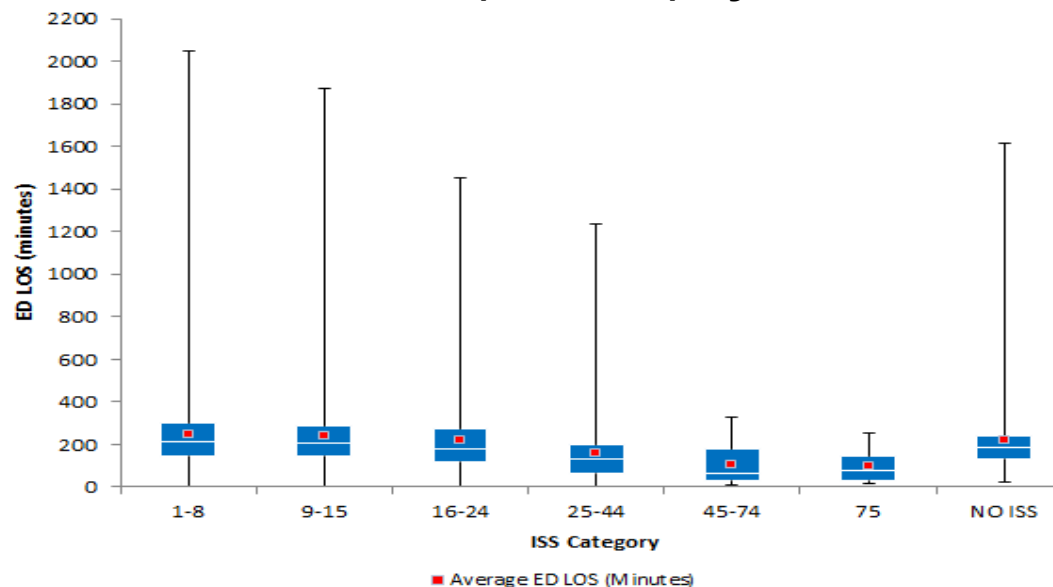
ED LOS (Minutes) by ISS



A table with all the values for ED LOS is found on page 47.

ED LOS (Minutes) by ISS

Note for EDLOS by ISS, there were 8 cases with ISS of 75; none were at non-trauma centers.



A table with values for ED LOS by ISS may be found on page 48.

Indiana Trauma Registry

Statewide Quarter 2 Data Report

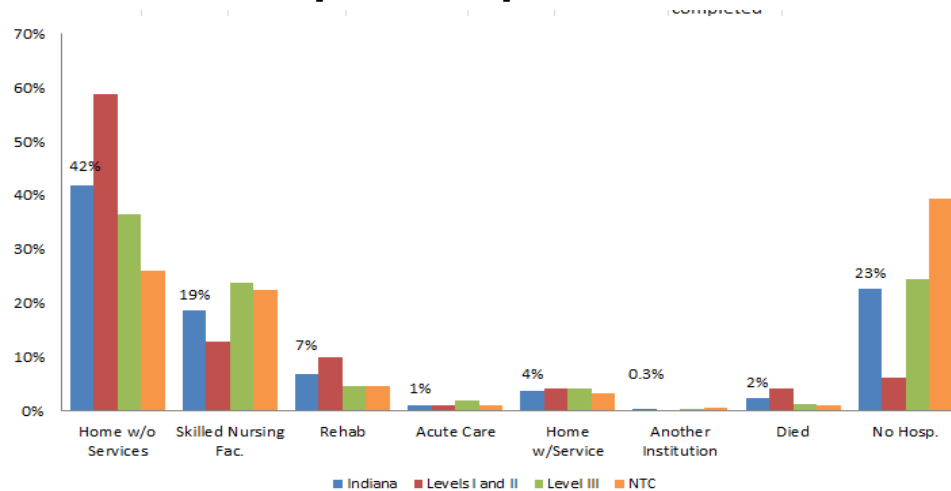
April 1, 2015—June 30, 2015

8,605 Incidents

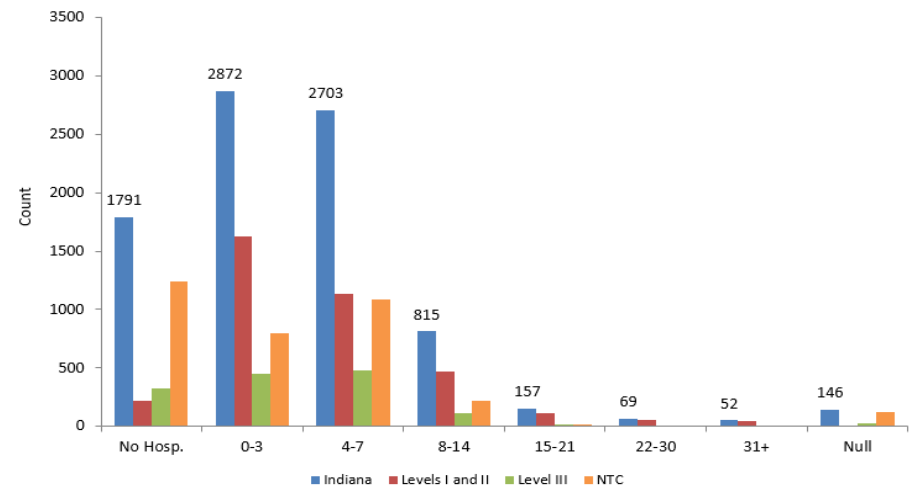
95 Total Hospitals Reporting

Level I and II:	9 facilities	42.6% of data
Level III:	10 facilities	16.6% of data
(Non-Trauma) Hospitals:	76 facilities	40.8% of data

Hospital Disposition



Hospital Length of Stay (days)



*There are new categories for the Hospital Disposition for the 2014 Data Dictionary
 <1%: null, psych., long term care hospital, AMA, hospice and intermediate care.

Indiana Trauma Registry

Statewide Quarter 2 Data Report

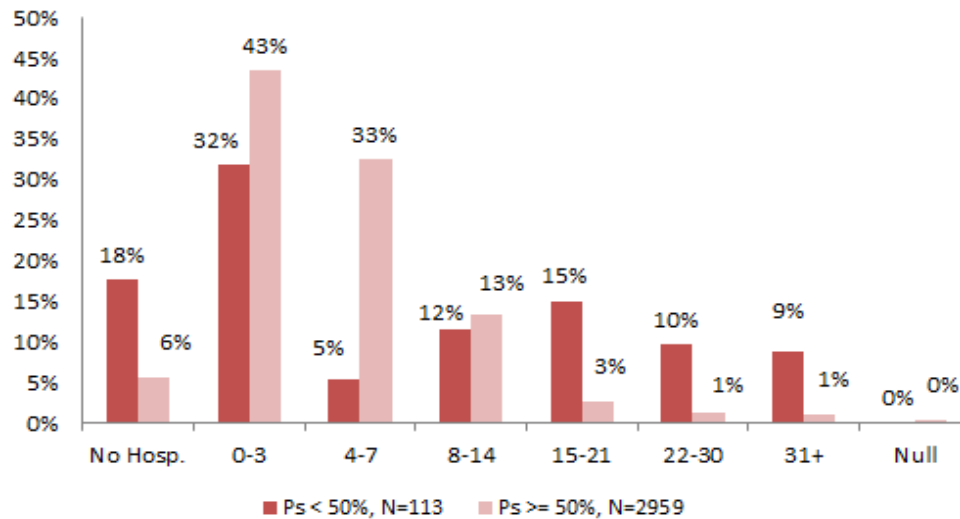
April 1, 2015—June 30, 2015

8,605 Incidents

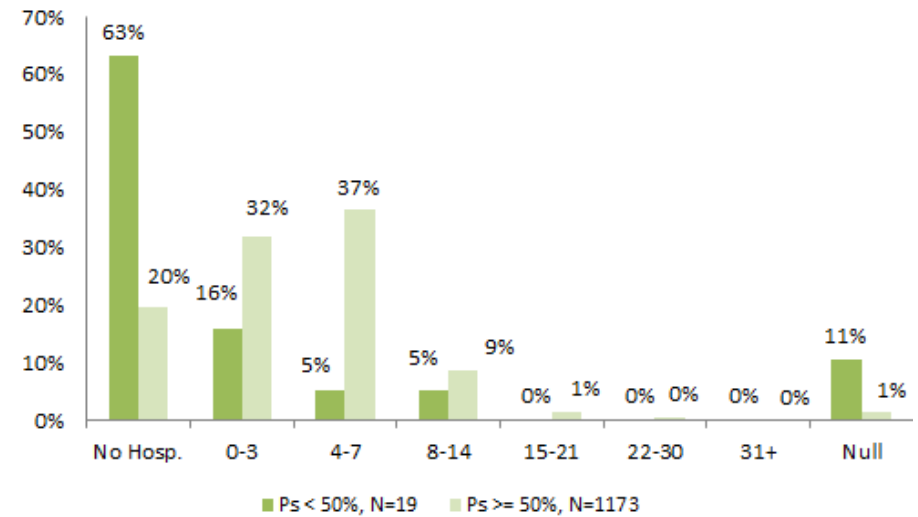
95 Total Hospitals Reporting

Level I and II:	9 facilities	42.6% of data
Level III:	10 facilities	16.6% of data
(Non-Trauma) Hospitals:	76 facilities	40.8% of data

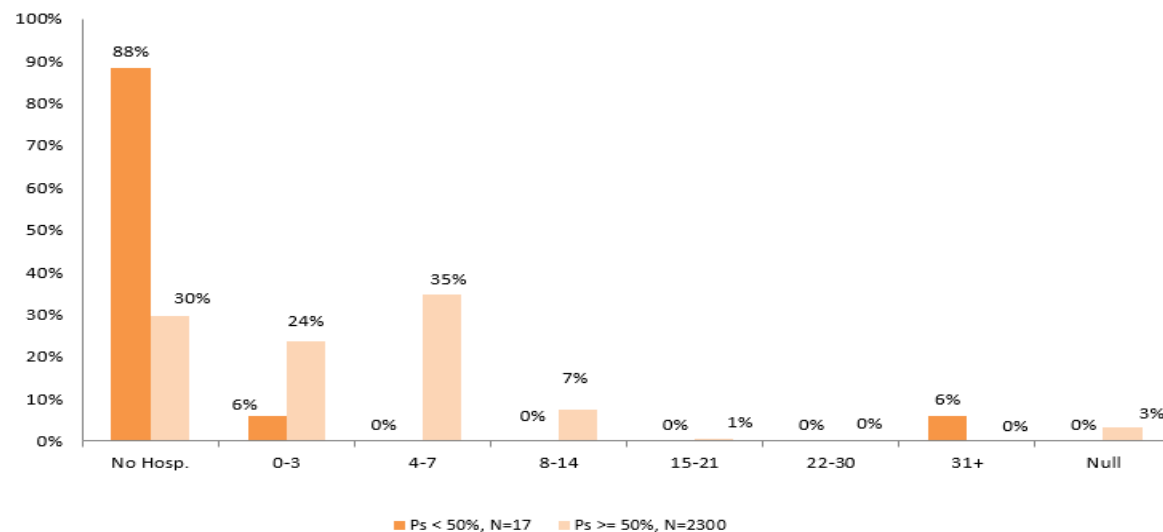
Hospital LOS (days) by Ps Levels I and II



Hospital LOS (days) by Ps Level III



Hospital LOS (days) by Ps Non-Trauma Centers



Indiana Trauma Registry

Statewide Quarter 2 Data Report

April 1, 2015—June 30, 2015

8,605 Incidents

95 Total Hospitals Reporting

Level I and II:	9 facilities	42.6% of data
Level III:	10 facilities	16.6% of data
(Non-Trauma) Hospitals:	76 facilities	40.8% of data

ED Disposition of Expired for Ps \geq 50%, N=10

Facilities	2 Non-Trauma Centers 8 Trauma Centers	ISS	3 (1-8 cat.); 4 (16-24 cat.); 1 (25-44); 2 No ISS
Average Distance from Scene to Facility*	7.5 Miles	RTS—Systolic	3.0 (0-4)
Transport Type	7 Ground ambulance; 2 Helicopter; 1 Walk-in	RTS—GCS Scale	1.8 (0-4)
Trauma Type	10 Blunt	RTS—Resp. Scale	3.2 (2-4)
Cause of Injury	2 Falls; 7 MVC; 1 Transport	RTS	4.8 (0.9-7.5)
Signs of Life	8 Yes; 2 No	B Value	1.6 (0.04-2.97)
Age	51.9 Years (17-92 Years)	Ps	0.8 (0.5-0.95)
Gender	5 Female; 5 Male	Resp. Assistance	3 Yes; 7 No
Interfacility Transfer	1 Yes; 9 No	ED LOS	1.4 hours (0.13-3.55 hours)
Region	7 North; 3 Central		

-Region was created from injury zip code. Missing = no injury zip or injury zip from out of state.

-Numbers represent counts per category or mean with minimum and maximum in parentheses.

Indiana Trauma Registry

Statewide Quarter 2 Data Report

April 1, 2015—June 30, 2015

8,605 Incidents

95 Total Hospitals Reporting

Level I and II: 9 facilities 42.6% of data

Level III: 10 facilities 16.6% of data

(Non-Trauma) Hospitals: 76 facilities 40.8% of data

ED Dispo ≠ Expired, Hospital Dispo = Expired for Ps ≥ 50%, N=108, Trauma Centers

Interfacility Transfer	43 Yes	Interfacility Transfer	65 No
Average Distance from Scene to Facility	18.9 Miles	Average Distance from Scene to Facility	7.3 Miles
Transport Type	23 Ambulance; 20 Helicopter	Transport Type	45 Ambulance; 11 Helicopter; 8 Private Vehicle; 1 Unknown
Trauma Type	33 Blunt; 2 Penetrating; 4 Burn; 4 Other	Trauma Type	57 Blunt; 1 Burn; 3 Penetrating; 4 Other
Cause of Injury	20 Fall; 10 MVC; 1 Struck by, Against; 2 Firearm; 2 Transport; 1 Machinery; 4 Fire/Burn; 3 Unknown	Cause of Injury	34 Fall; 19 MVC; 1 Struck; 2 Firearm; 2 Transport; 1 Cut/Pierce; 1 Fire/Burn; 3 Not Categorized; 1 Natural; 1 Bicyclist
Signs of Life	32 Yes; 1 No; 10 Unknown	Signs of Life	51 Yes; 1 No; 13 Unknown
Age	58.8 Years (0.2-97 Years)	Age	64 (1-98 Years)
Gender	16 Female; 27 Male	Gender	20 Female; 45 Male
Region	6 North; 21 Central; 3 South	Region	9 North; 30 Central; 12 South; 14 Other
ISS	8 (1-8); 11 (9-15); 5 (16-24); 17 (25-44); 2 (45-74)	ISS	4 (1-8); 19 (9-15); 9 (16-24); 32 (25-44); 1 (45-74)
RTS—Systolic	3.8 (2-4)	RTS—Systolic	3.8 (1-4)
RTS—GCS Scale	1.9 (0-4)	RTS—GCS Scale	2.7 (0-4)
RTS—Resp. Scale	3 (0-4)	RTS—Resp. Scale	3 (0-4)
RTS	6.1 (3.8-7.8)	RTS	6.4 (2.9-7.8)
B Value	1.9 (0.2—3.6)	B Value	1.8 (0.1-5.3)
Ps	0.8 (0.6— .97)	Ps	0.8 (0.5-1)
Resp. Assistance	20 Yes; 23 No	Resp. Assistance	16 Yes; 49 No
ED LOS	2.7 Hours (0.5-9.7 Hours)	ED LOS	3.6 Hours (0.3-22 Hours)

-Region was created from injury zip code. Missing = no injury zip or injury zip from out of state.

-Numbers represent counts per category or mean with minimum and maximum in parentheses.

Indiana Trauma Registry

Statewide Quarter 2 Data Report

April 1, 2015—June 30, 2015

8,605 Incidents

95 Total Hospitals Reporting

Level I and II:	9 facilities	42.6% of data
Level III:	10 facilities	16.6% of data
(Non-Trauma) Hospitals:	76 facilities	40.8% of data

ED Dispo ≠ Expired, Hospital Dispo = Expired for Ps ≥ 50%, N=28, Non-trauma Centers

Interfacility Transfer	28 No
Average Distance from Scene to Facility	8.7 Miles
Transport Type	25 Ambulance; 3 Private Vehicle
Trauma Type	23 Blunt; 1 Burn; 1 Penetrating; 3 Other
Cause of Injury	22 Falls; 1 MVC; 1 Firearm; 1 Fire/Burn; 3 Not Categorized
Signs of Life	28 Yes
Age	80 (28-98)
Gender	12 Females; 16 Males
Region	8 North; 12 Central; 6 South
ISS	10 (1-8); 15 (9-15); 0 (16-24); 2 (25-44); 1 Unknown
RTS—Systolic	3.9 (3-4)
RTS—GCS Scale	3.5 (0-4)
RTS—Resp. Scale	3.0 (2-4)
RTS	7.2 (5.4-7.6)
B Value	2.9 (1.2-3.8)
Ps	0.9 (0.8-9.8)
Resp. Assistance	7 Yes; 13 No; 8 Unknown
ED LOS	4.8 Hours (1.6-20.4)

-Region was created from injury zip code. Missing = no injury zip or injury zip from out of state.

-Numbers represent counts per category or mean with minimum and maximum in parentheses.

Indiana Trauma Registry

Statewide Quarter 2 Data Report

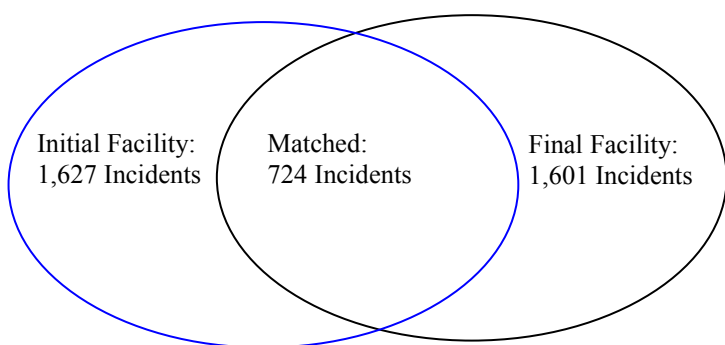
April 1, 2015—June 30, 2015

8,605 Incidents

95 Total Hospitals Reporting

Level I and II:	9 facilities	42.6% of data
Level III:	10 facilities	16.6% of data
(Non-Trauma) Hospitals:	76 facilities	40.8% of data

For Quarter 2, 2015, of the 8,605 incidents reported to the Indiana Trauma Registry, 1,627 cases that had an ED Disposition of “Transferred to another acute care facility” at the initial facility or that had the Inter-Facility Transfer equal to “Yes” at the Trauma Center. Of those transferred, 430 cases were probabilistically matched. The linked cases make up 22% of the Q2 2015 data. All public health preparedness districts are represented. The diagram below illustrates the overlap between the transfers reported from the initial facility and from the final facility that can be matched.



The initial facility in which transfers come from may be considered Critical Access Hospitals (CAHs). All Indiana CAHs are considered Rural, and must meet additional requirements to have a CAH designation, such as having no more than 25 inpatient beds and being located in a rural area. Facilities that are highlighted indicate that these facilities reported data for Quarter 2, 2015.

Within this transfer data section, the purple columns represent the transfer cases and the single percentages represent the percent for the transfer cases. For two demographic variables, patient age groupings and gender, the Indiana average is included to provide more insight to this transfer population.

Indiana Critical Access Hospitals (CAHs)

Adams Memorial Hospital	Perry County Memorial Hospital
Cameron Memorial Community Hospital Inc	Pulaski Memorial Hospital
Community Hospital of Bremen Inc	Putnam County Hospital
Decatur County Memorial Hospital	Rush Memorial Hospital
Dukes Memorial Hospital	Scott Memorial Hospital
Gibson General Hospital	St Vincent Frankfort Hospital Inc
Greene County General Hospital	St Vincent Jennings Hospital Inc
Harrison County Hospital	St Vincent Mercy Hospital
IU Health Bedford Hospital	St Vincent Randolph Hospital Inc
IU Health Blackford Hospital	St Vincent Salem Hospital Inc
IU Health Paoli Hospital	St. Mary's Warrick Hospital Inc
IU Health Tipton Hospital	St. Vincent Clay Hospital Inc
IU Health White Memorial Hospital	St. Vincent Dunn Hospital Inc
Jasper County Hospital	St. Vincent Williamsport Hospital, Inc.
Jay County Hospital	Sullivan County Community Hospital
Margaret Mary Community Hospital Inc	Union Hospital Clinton
Parkview LaGrange Hospital	Woodlawn Hospital
Parkview Wabash Hospital	

Rural Hospitals

Columbus Regional Hospital	King's Daughters' Health
Daviess Community Hospital	Kosciusko Community Hospital
Fayette Regional Health System	Marion General Hospital
Franciscan St Anthony Health - Michigan City	Memorial Hospital
Franciscan St Elizabeth Health - Crawfordsville	Memorial Hospital and Health Care Center
Good Samaritan Hospital	Parkview Noble Hospital
Henry County Memorial Hospital	Reid Hospital & Health Care Services
Indiana University Health La Porte Hospital	Saint Joseph RMC - Plymouth
Indiana University Health Starke Hospital	Schneck Medical Center

Indiana Trauma Registry

Statewide Quarter 2 Data Report

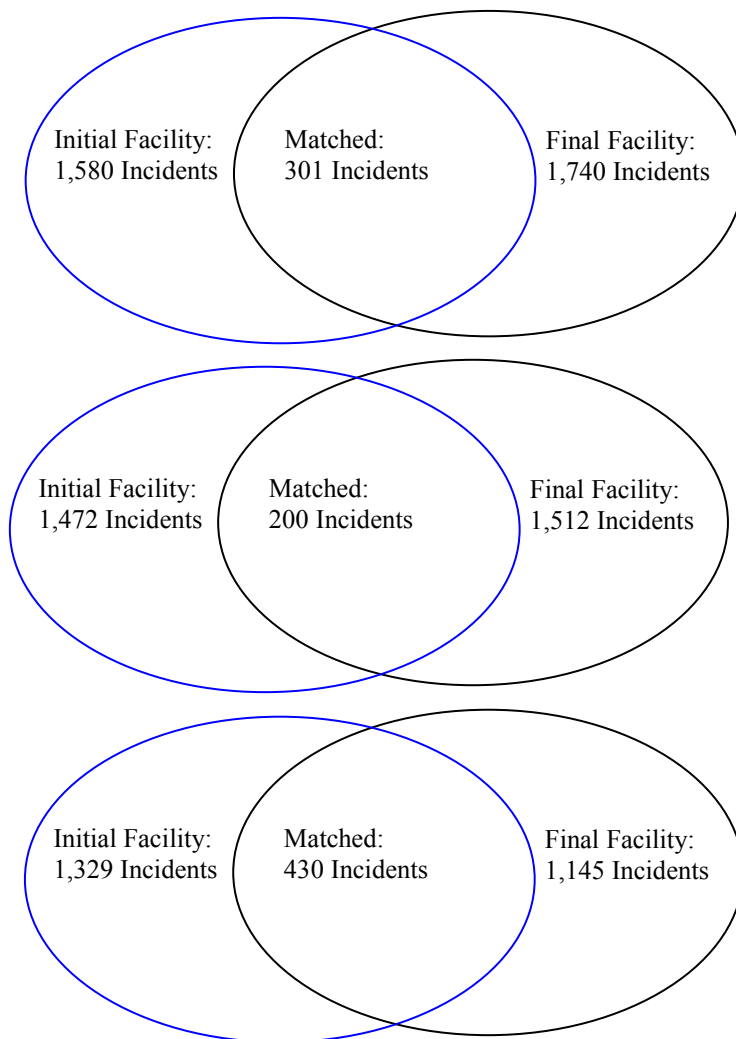
April 1, 2015—June 30, 2015

8,605 Incidents

95 Total Hospitals Reporting

Level I and II:	9 facilities	42.6% of data
Level III:	10 facilities	16.6% of data
(Non-Trauma) Hospitals:	76 facilities	40.8% of data

Historical Links



For Quarter 3, 2014, of the 8,814 incidents reported to the Indiana Trauma Registry, 1580 cases that had an ED Disposition of “Transferred to another acute care facility” at the initial facility or that had the Inter-Facility Transfer equal to “Yes” at the Trauma Center. Of those transferred, 301 cases were probabilistically matched. The linked cases make up 9.1% of the Q3 2014 data. All public health preparedness districts are represented. The diagram below illustrates the overlap between the transfers reported from the initial facility and from the final facility that can be matched.

For Quarter 4, 2014, of the 8,052 incidents reported to the Indiana Trauma Registry, 1472 cases that had an ED Disposition of “Transferred to another acute care facility” at the initial facility or that had the Inter-Facility Transfer equal to “Yes” at the Trauma Center. Of those transferred, 200 cases were probabilistically matched. The linked cases make up 6.7% of the Q4 2014 data. All public health preparedness districts are represented. The diagram below illustrates the overlap between the transfers reported from the initial facility and from the final facility that can be matched.

For Quarter 1, 2015, of the 7,050 incidents reported to the Indiana Trauma Registry, 1,329 cases that had an ED Disposition of “Transferred to another acute care facility” at the initial facility or that had the Inter-Facility Transfer equal to “Yes” at the Trauma Center. Of those transferred, 430 cases were probabilistically matched. The linked cases make up 17% of the Q1 2015 data. All public health preparedness districts are represented. The diagram below illustrates the overlap between the transfers reported from the initial facility and from the final facility that can be matched.

Indiana Trauma Registry

Statewide Quarter 2 Data Report

April 1, 2015—June 30, 2015

8,605 Incidents

95 Total Hospitals Reporting

Level I and II: 9 facilities 42.6% of data

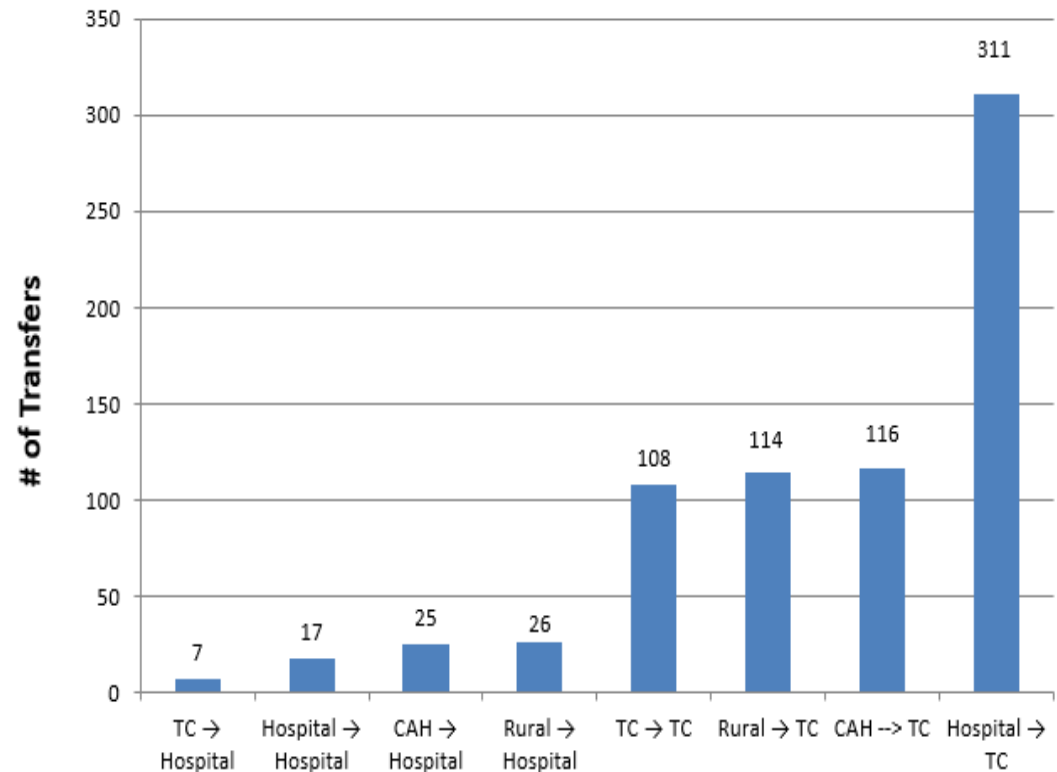
Level III: 10 facilities 16.6% of data

(Non-Trauma) Hospitals: 76 facilities 40.8% of data

Facility to Facility Transfers

For Transfer Patients:		
Initial Hospital Type	Final Hospital Type	Incident Counts
Trauma Center	Hospital	7
Hospital	Hospital	17
Critical Access Hospital	Hospital	25
Rural	Hospital	26
Trauma Center	Trauma Center	108
Rural	Trauma Center	114
Critical Access Hospital	Trauma Center	116
Hospital	Trauma Center	311

Facility Transfer Type



Rural = Rural Hospital; TC = ACS Verified or In Process Trauma Center;

CAH = Critical Access Hospital; Hospital = does not fall into above categories

Indiana Trauma Registry

Statewide Quarter 2 Data Report

April 1, 2015—June 30, 2015

8,605 Incidents

95 Total Hospitals Reporting

Level I and II:

9 facilities

42.6% of data

Level III:

10 facilities

16.6% of data

(Non-Trauma) Hospitals:

76 facilities

40.8% of data

For Linked Transfer Patients:

For Transfer Patients:					
	All Transfer Patients	Critical*	Physiological Critical**	ISS Critical***	<u>Ps <0.5****</u>
Number of Patients	724	407	384	60	5
EMS Notified to Scene	8.6 minutes	9.0 minutes	9.1 minutes	8.3 minutes	12.8 minutes
EMS Scene Arrival to Departure	20.7 minutes	24.0 minutes	24.5 minutes	55.2 minutes	13.4 minutes
EMS Scene Departure to Initial Hospital ED Arrival	16.7 minutes	15.5 minutes	15.4 minutes	15.9 minutes	17.2 minutes
Initial Hospital ED Arrival to Departure	2 hours 58.4 minutes	2 hours 51.6 minutes	2 hours 51.3 minutes	2 hours 30.1 minutes	1 hour 6.6 minutes
Initial Hospital ED Departure to Final Hospital ED Arrival	58.1 minutes	1 hour 1.2 minutes	1 hour 1.2 minutes	56.5 minutes	29.2 minutes
TOTAL TIME	4 hours 42.5 minutes	4 hours 41.3 minutes	4 hours 41.5 minutes	4 hours 46 minutes	2 hours 19.2 minutes

*Critical patient is defined as having a GCS ≤ 12 , OR Shock Index > 0.9 OR ISS > 15 at the initial hospital.

**Physiological Critical Transfer patient is defined as having a Shock Index > 0.9 OR GCS ≤ 12 at the initial hospital.

***ISS Critical Transfer patient is defined as having an ISS > 15 at the initial hospital

****Patients with a probability of survival ≤ 0.5 at the initial hospital.

Indiana Trauma Registry

Statewide Quarter 2 Data Report

95 Total Hospitals Reporting

Level I and II:

9 facilities

42.6% of data

Level III:

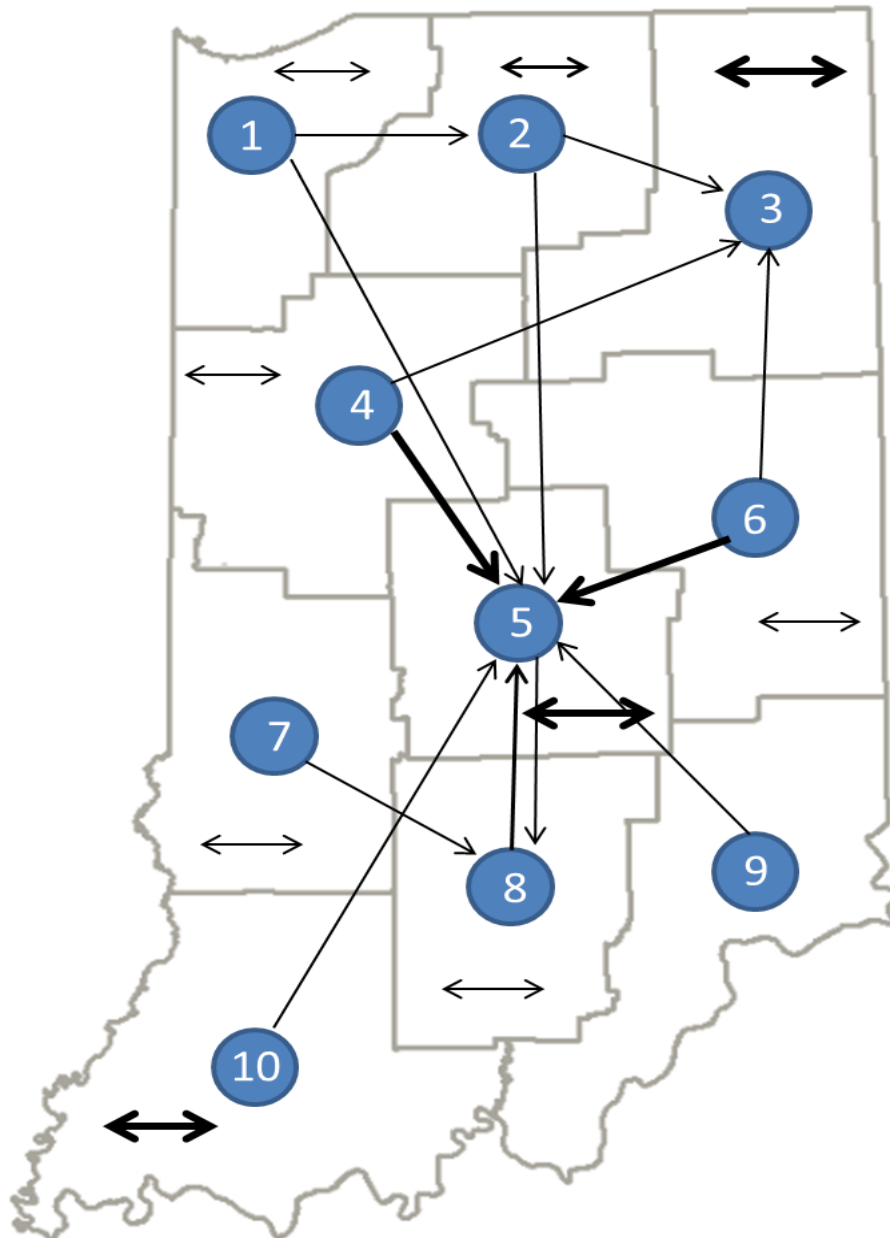
10 facilities

16.6% of data

(Non-Trauma) Hospitals:

76 facilities

40.8% of data



For Transfer Patients:

Public Health Preparedness District Initial Hospital	Public Health Preparedness District Final Hospital	Incident Counts
1	1	7
1	2	8
1	5	12
2	2	12
2	3	8
2	5	8
3	3	121
3	5	1
4	3	7
4	4	14
4	5	64
5	5	125
5	8	2
6	3	5
6	5	86
6	6	15
7	5	72
7	7	5
7	8	1
7	10	1
8	5	35
8	8	17
9	5	3
10	5	11
10	10	84

*The thickness of the line indicates the frequency of transfers out of or within the public health preparedness district. The circles represent transfers from a specific PHPD, not of a specific

Indiana Trauma Registry

Statewide Quarter 2 Data Report

April 1, 2015—June 30, 2015

8,605 Incidents

95 Total Hospitals Reporting

Level I and II:

9 facilities

42.6% of data

Level III:

10 facilities

16.6% of data

(Non-Trauma) Hospitals:

76 facilities

40.8% of data

For Linked Transfer Patients:

For Transfer Patients:					
	All Transfer Patients	<i>Critical*</i>	<i>Physiological Critical**</i>	<i>ISS Critical***</i>	<u><i>Ps <0.5****</i></u>
Number of Patients	724	407	384	60	5
Total Time	4 hours 42.5 minutes	4 hours 41.3 minutes	4 hours 41.5 minutes	4 hours 46 minutes	2 hours 19.2 minutes
Total Mileage	55.0	53.7	53.0	63.1	61.0
Injury Scene to Initial Hospital Mileage***	7.5	8.1	8.2	6.8	5.3
Initial Facility to Final Facility Mileage	47.5	45.6	44.7	56.3	55.7
Estimated Average Distance (miles) by Region (region of final hospital):					
Region	Injury Scene to Initial Facility Mileage†	Initial Facility to Final Facility Mileage	Total Mileage	Drive Count	Air Count
Indiana Average	7.5	47.5	55.0	604	120
North Region	6.7	43.4	50.0	263	39
Central Region	8.5	56.7	65.2	162	52
South Region	7.9	43.9	51.8	179	29

*Critical patient is defined as having a GCS ≤ 12 , OR Shock Index > 0.9 OR ISS > 15 at the initial hospital.

**Physiological Critical Transfer patient is defined as having a Shock Index > 0.9 OR GCS ≤ 12 at the initial hospital.

*** ISS Critical Transfer patient is defined as ISS > 15 at the initial hospital.

****Probability of Survival < 0.5

†Injury Scene to Initial Facility Mileage location estimated by zip code centroid

Statistics for Estimated Average Distance by Region calculated by Public Health Geographics, Epidemiology Resource Center, ISDH

Indiana Trauma Registry

Statewide Quarter 2 Data Report

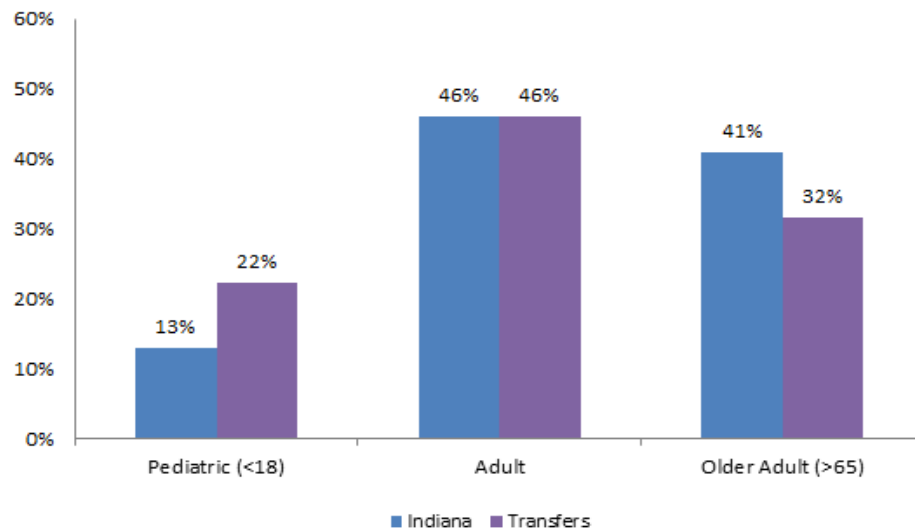
April 1, 2015—June 30, 2015

8,605 Incidents—724 Transfers

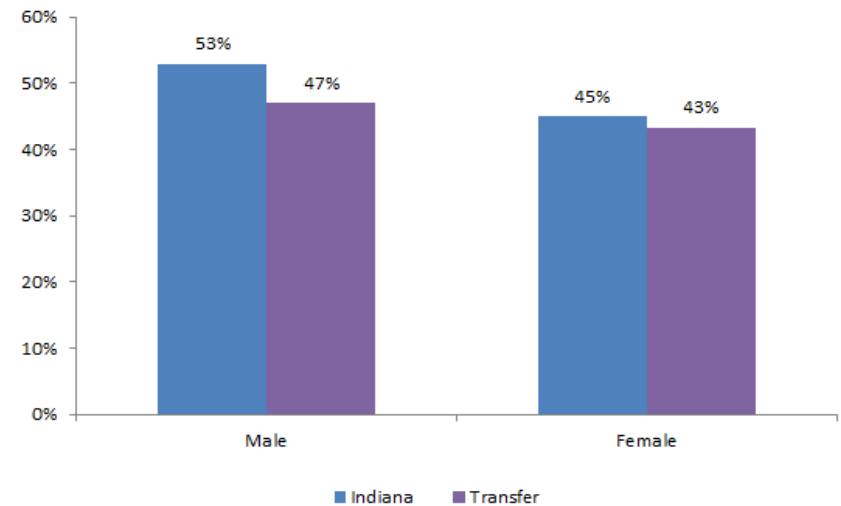
95 Total Hospitals Reporting

Level I and II:	9 facilities	42.6% of data
Level III:	10 facilities	16.6% of data
(Non-Trauma) Hospitals:	76 facilities	40.8% of data

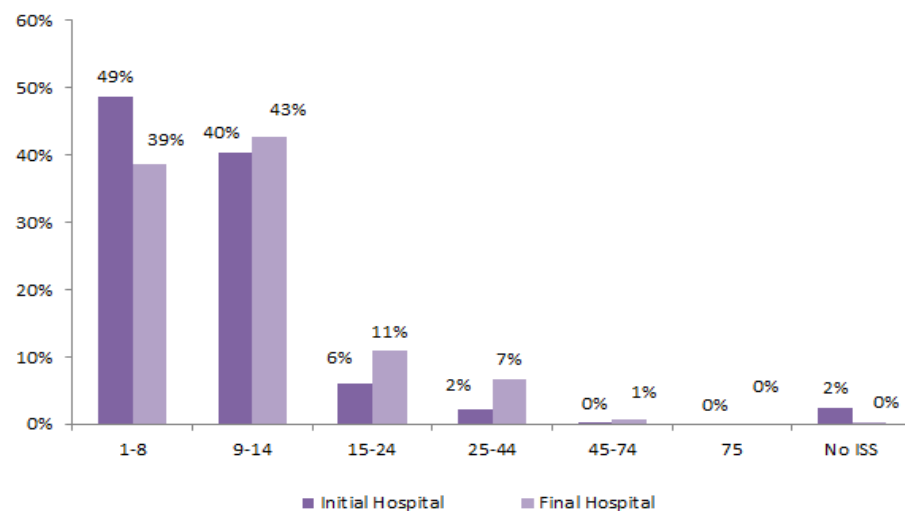
Patient Age Groupings



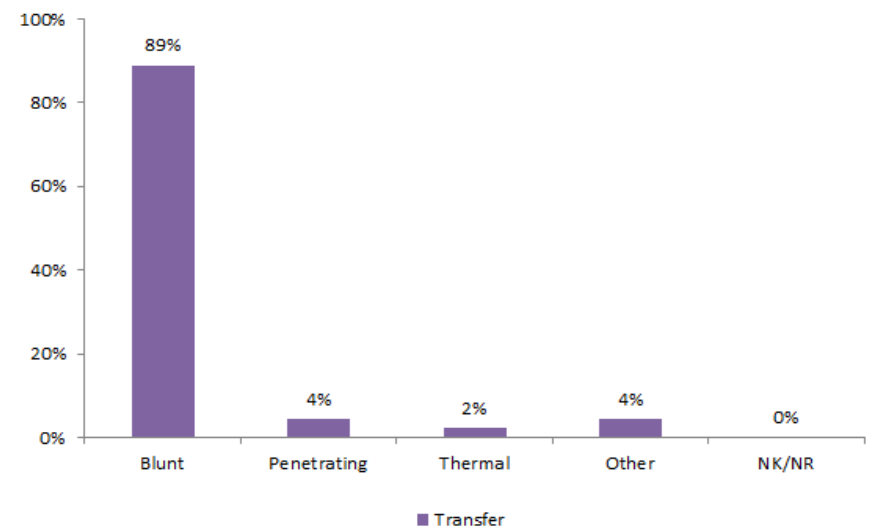
Patient Gender



Injury Severity Score (ISS)



Trauma Type- Final Hospital



Indiana Trauma Registry

Statewide Quarter 2 Data Report

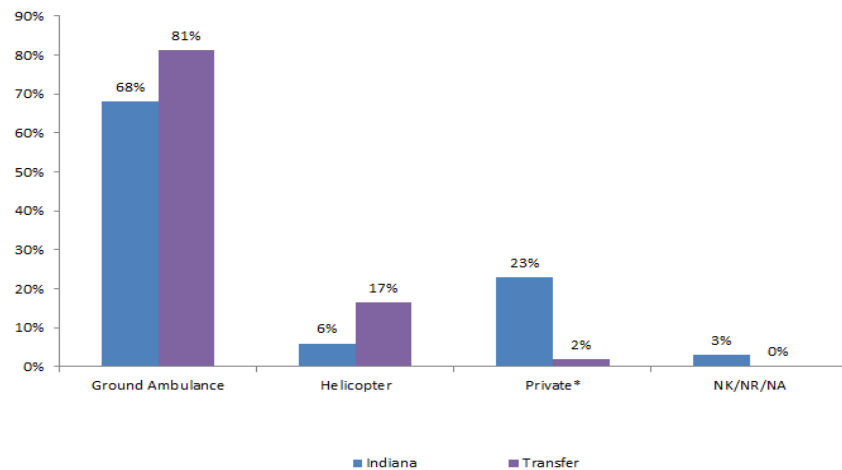
April 1, 2015—June 30, 2015

8,605 Incidents—724 Transfers

95 Total Hospitals Reporting

Level I and II:	9 facilities	42.6% of data
Level III:	10 facilities	16.6% of data
(Non-Trauma) Hospitals:	76 facilities	40.8% of data

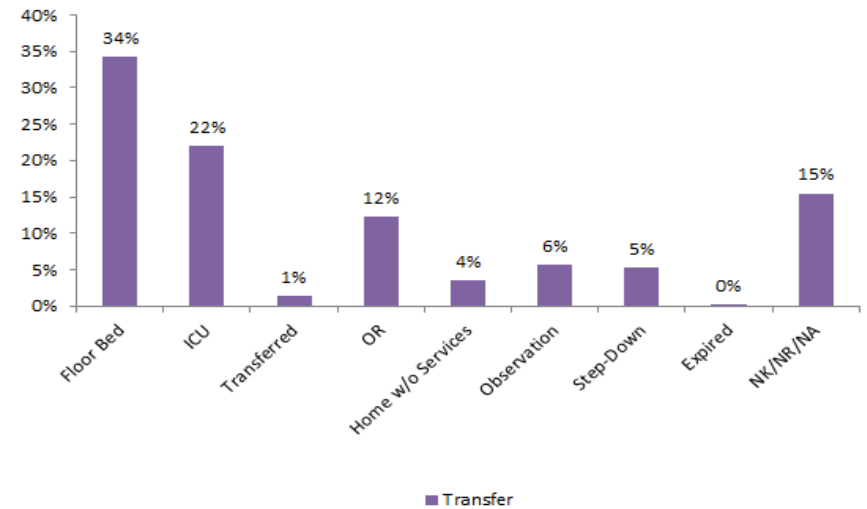
Transport Mode— Final Hospital



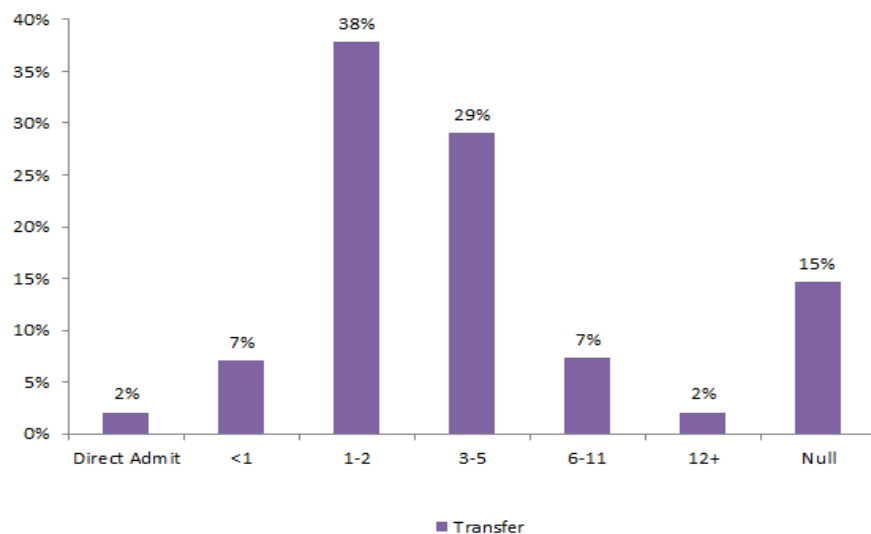
<1% Transport Mode: Police, Other

* Indicates Private/ Public Vehicle, Walk-in

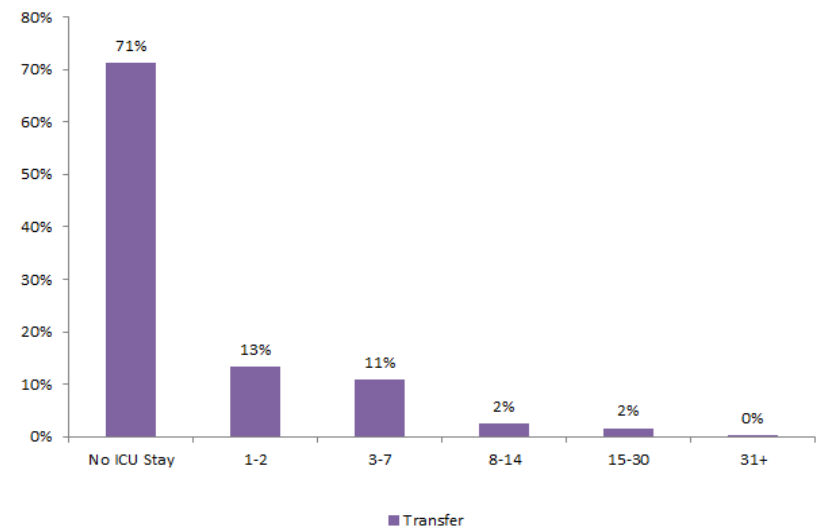
ED Disposition by Percentage- Final Hospital



ED Length of Stay (hours)- Final Hospital



ICU Length of Stay (days)- Final Hospital



Indiana Trauma Registry

Statewide Quarter 2 Data Report

April 1, 2015—June 30, 2015

8,605 Incidents—724 Transfers

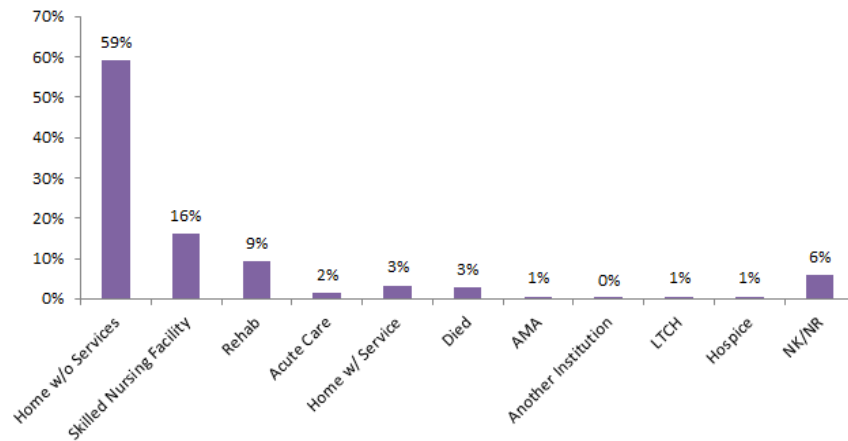
95 Total Hospitals Reporting

Level I and II: 9 facilities 42.6% of data

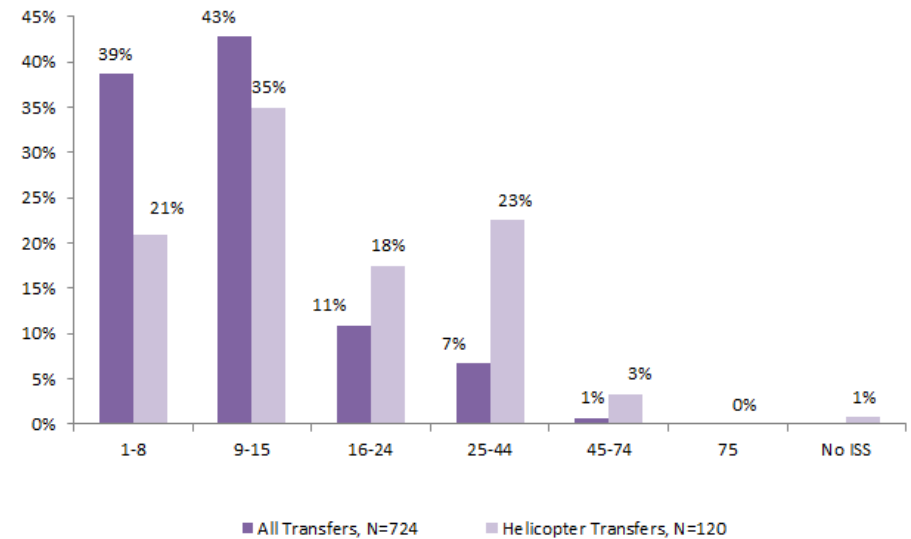
Level III: 10 facilities 16.6% of data

(Non-Trauma) Hospitals: 76 facilities 40.8% of data

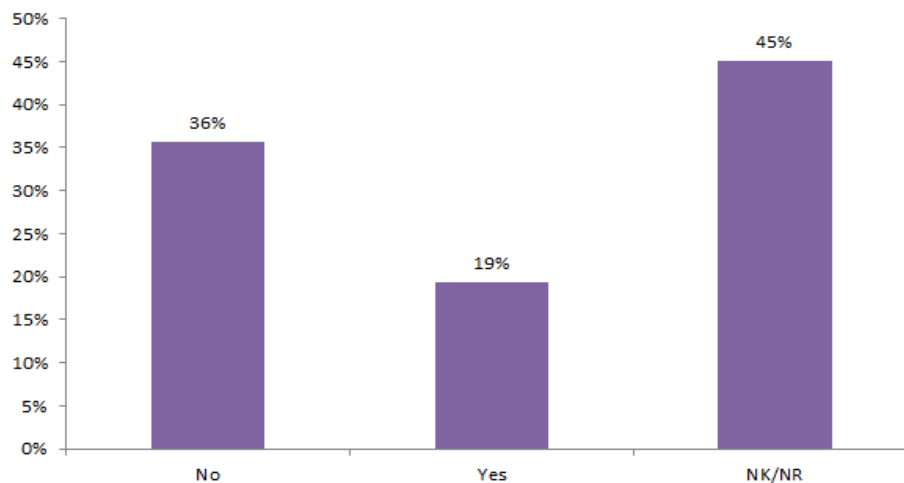
Discharge Disposition— Final Hospital



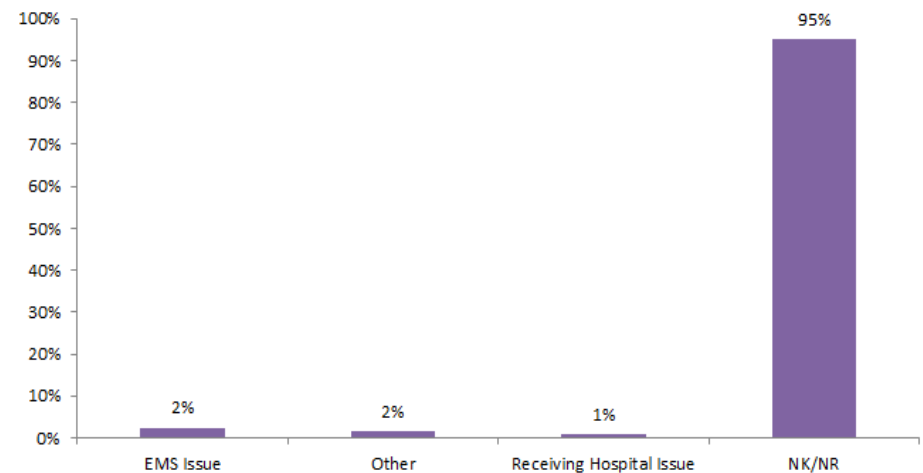
Helicopter Transfers by ISS— Final Hospital



Transfer Delay Indicated- Initial Hospital



Initial Facility Transfer Delay Reason



Indiana Trauma Registry

Statewide Quarter 2 Data Report

April 1, 2015—June 30, 2015

8,605 Incidents

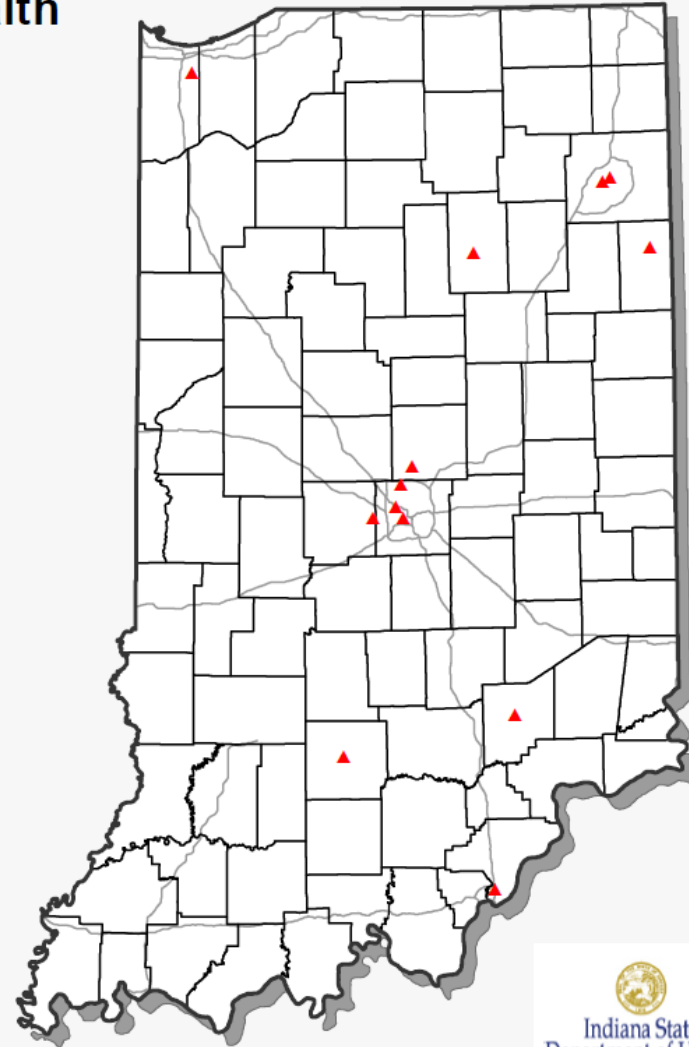
95 Total Hospitals Reporting

Level I and II:	9 facilities	42.6% of data
Level III:	10 facilities	16.6% of data
(Non-Trauma) Hospitals:	76 facilities	40.8% of data

Indiana State Department of Health Indiana Trauma Registry

Hospitals Not Reporting Trauma Data
to the Indiana Trauma Registry

Adams Memorial Hospital
Community Westview Hospital
IU Health - West Hospital
Kentuckiana Medical Center
Parkview Wabash Hospital
Richard L Roudebush VA Medical Center
St. Joseph Hospital (Fort Wayne)
St. Mary Medical Center Hobart
St. Vincent - Carmel Hospital
St. Vincent - Dunn Hospital
St. Vincent - Fishers Hospital
St. Vincent - Jennings Hospital
St. Vincent - Peyton Manning Children's
VA Northern IN Healthcare System



Not reporting as of 10/1/2015

Map author: ISDH Trauma & Injury Prevention - October 2015

Indiana Trauma Registry

Statewide Quarter 2 Data Report

April 1, 2015—June 30, 2015

8,605 Incidents

95 Total Hospitals Reporting

Level I and II:	9 facilities	42.6% of data
Level III:	10 facilities	16.6% of data
(Non-Trauma) Hospitals:	76 facilities	40.8% of data

Requests and Changes to the Report from Trauma Care Committee members at the February 2015 ISTCC Meeting:

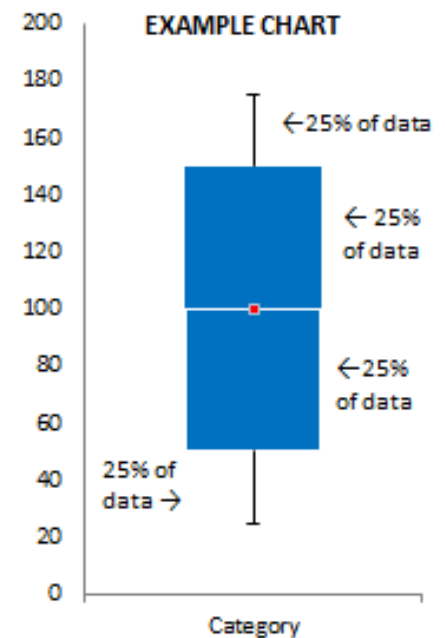
General Report:

- The hospital categories are now: Level I or II trauma centers, Level III trauma centers, and non-trauma hospitals. The trauma center categories include both verified and in process trauma centers. This is the second report that uses this categorization.
- The first half of the report (pages 1-21) focuses on data and timely topics for the past quarter. The second half of the report (Supplemental Report, pages 22-51) contain demographic information, data that stays nearly constant from quarter to quarter, and reference tables and maps.
- We are continuing to track the number of cases that fell into the ED LOS >12 hours category, which is on page 3.
- A map of all reporting hospitals is found on page 50.
- A map of all hospital not reporting is found on page 20.
- Average ED LOS by district may be found on pages 24. ED LOS is split out into transfers and critical transfers.
- There were ten cases with Ps \geq 50% and ED Disposition of expired.
- A fifth column for transferred patients with Ps < 0.50 was added on pages 14 and 16.

Example Bar and Whisker Plot:

-Bar and whisker plots were requested at the November 2013 ISTCC meeting in order to show more than just an average ED LOS and ED LOS by ISS. The bar and whisker plots represent the four quartiles of data, as illustrated on the example graph to the right. The blue boxes each contain 25% of the values and the error bars each represent where 25% of the values fell. The median is represented in the middle of the two blue boxes with the white line. The red dot in the center indicates the average for that category. The cap on the error bars indicates the minimum and maximum of each category and all the values fall within the two caps.

-For the ED LOS bar and whisker plots to the right, the average is represented by the white dot and the color boxes reflect the hospital type. The ED LOS by ISS plots on the next page follow the same layout and the red dots indicate the average for each of the ISS categories.



Indiana Trauma Registry

Statewide Quarter 2 Data Report

April 1, 2015—June 30, 2015

8,605 Incidents

95 Total Hospitals Reporting

Level I and II:	9 facilities	42.6% of data
Level III:	10 facilities	16.6% of data
(Non-Trauma) Hospitals:	76 facilities	40.8% of data

Supplemental Report

-The Supplemental Report (pages 22-51) contain demographic information, data that stays nearly constant from quarter to quarter, and reference tables and maps.

Definitions:

Direct Admit: Patient is admitted directly to the hospital and does not spend time in Emergency Department. The ED Length of Stay should reflect a direct admittance.

External Cause of Injury: ICD-9-CM codes that are used to describe the mechanism or external factor that caused the injury event.

Trauma Type: The classification of the force applied to the body. Trauma type categories include blunt, penetrating, thermal, and other trauma.

Injury Severity Score: An anatomical scoring system defined as the sum of the three highest squared maximum Abbreviated Injury Scale (AIS) values to account for multiple injuries in the six body regions.

Acronyms:

E-code: External Cause of Injury	MVC: Motor Vehicle Collision
ED: Emergency Department	OR: Operating Room
ICU: Intensive Care Unit	Ps: Probability of Survival
ISS: Injury Severity Score	CAHs: Critical Access Hospital
LOS: Length of Stay	

Calculations:

$Ps = 1/(1+e^{-b})$ where $b=b_0+b1(RTS) + b2(ISS) + b3(\text{Age Index})$

Total GCS = Verbal GCS + Motor GCS + Eye GCS

$RTS = 0.94 * GCS + 0.73 * SBP + 0.29 * RR$

$ISS = (AIS)^2 + (AIS)^2 + (AIS)^2$



Indiana Trauma Registry

Statewide Quarter 2 Data Report

April 1, 2015—June 30, 2015

8,605 Incidents

95 Total Hospitals Reporting

Level I and II:

9 facilities

42.6% of data

Level III:

10 facilities

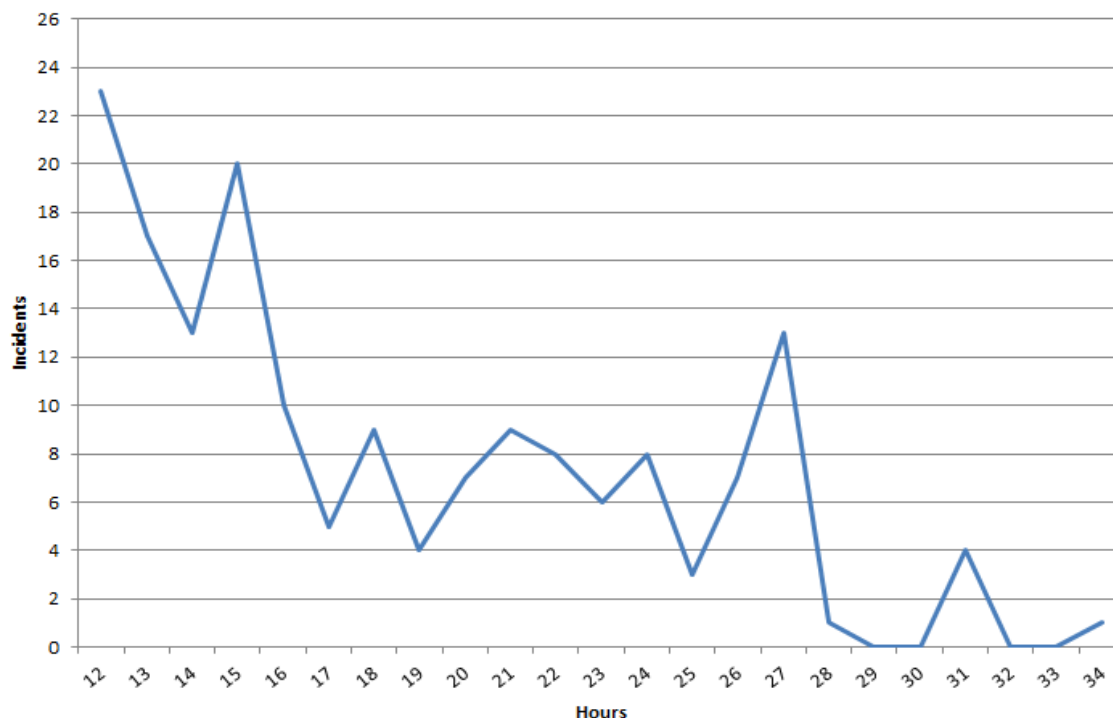
16.6% of data

(Non-Trauma) Hospitals:

76 facilities

40.8% of data

ED LOS ≥ 12 Hours



N=168

ED Length of Stay ≥ 12 Hours

Hour	Count	Hour	Count
12th	23	24th	8
13th	17	25th	3
14th	13	26th	7
15th	20	27th	13
16th	10	28th	1
17th	5	29th	0
18th	9	30th	0
19th	4	31st	4
20th	7	32nd	0
21st	9	33rd	0
22nd	8	34th	1
23rd	6		

Indiana Trauma Registry

Statewide Quarter 2 Data Report

April 1, 2015—June 30, 2015

8,605 Incidents

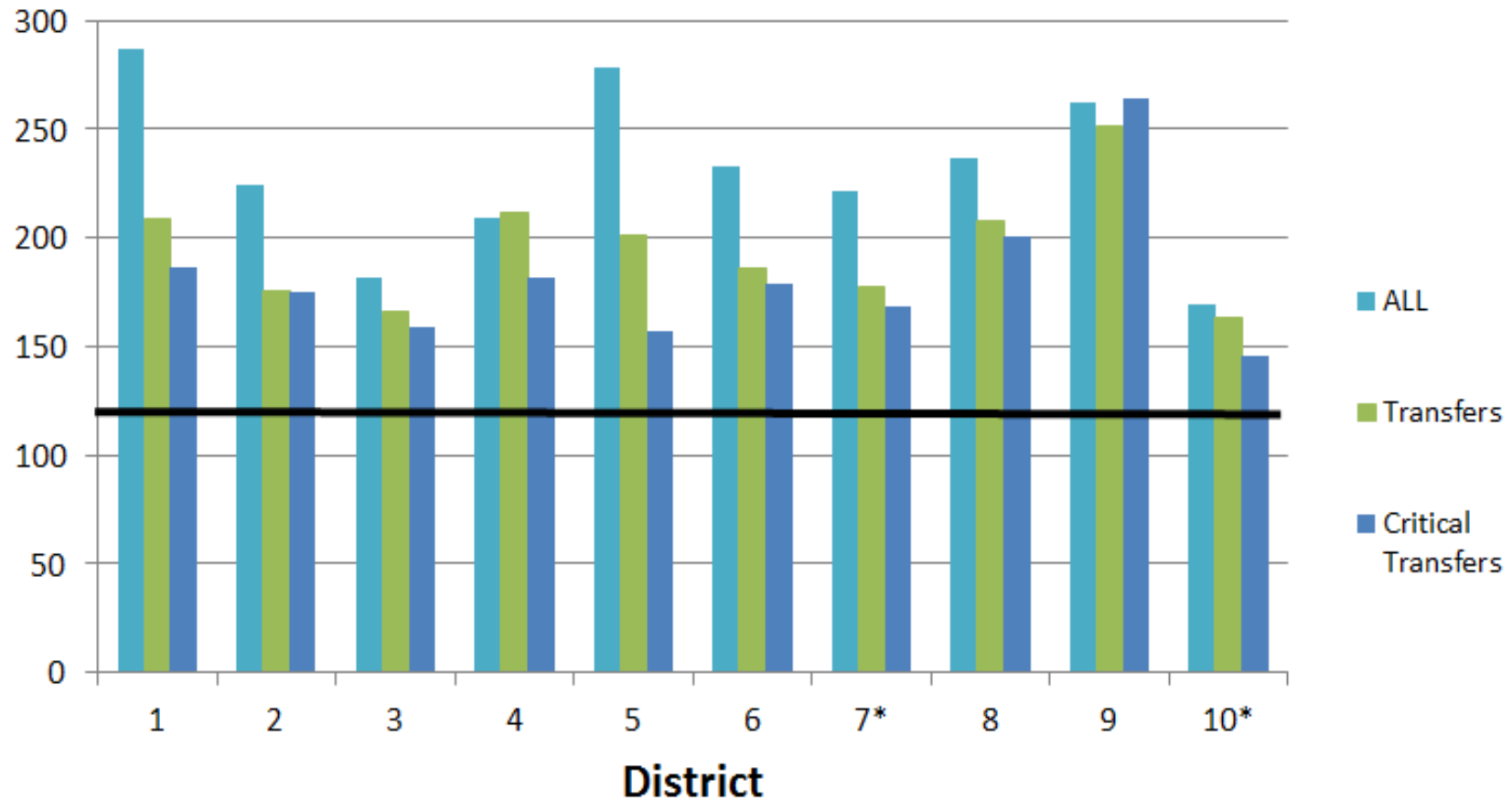
95 Total Hospitals Reporting

Level I and II: 9 facilities 42.6% of data

Level III: 10 facilities 16.6% of data

(Non-Trauma) Hospitals: 76 facilities 40.8% of data

Average ED LOS (Minutes)



The average bar is for all patients.

Indiana Trauma Registry

Statewide Quarter 2 Data Report

April 1, 2015—June 30, 2015

8,605 Incidents

95 Total Hospitals Reporting

Level I and II:

9 facilities

42.6% of data

Level III:

10 facilities

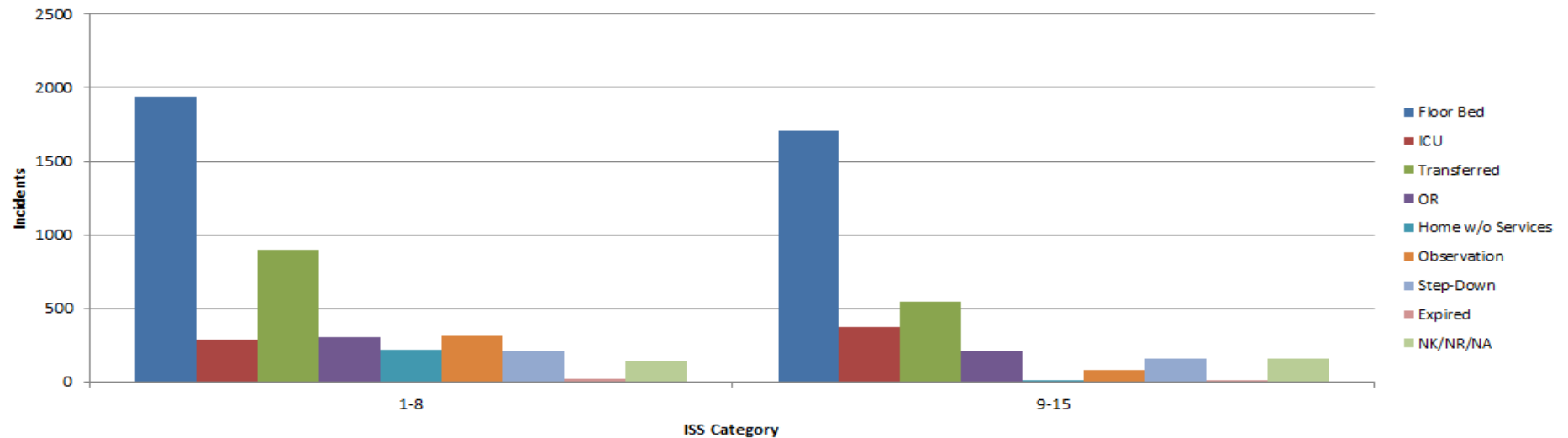
16.6% of data

(Non-Trauma) Hospitals:

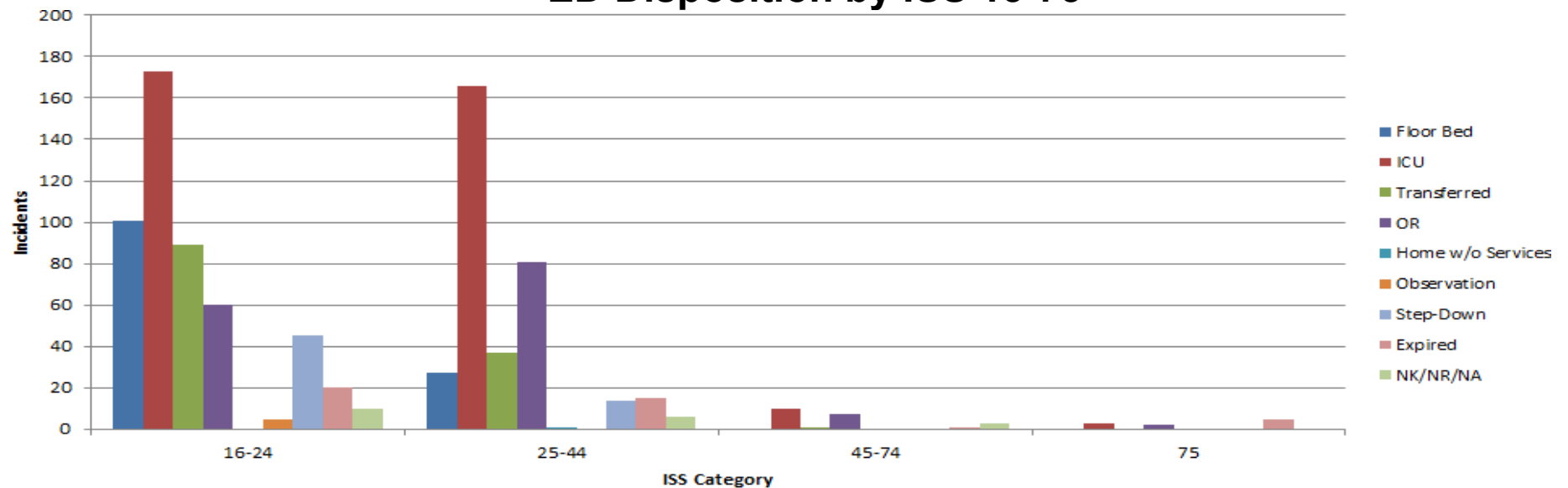
76 facilities

40.8% of data

ED Disposition by ISS 1-14



ED Disposition by ISS 15-75



ED Disposition <1%: AMA; Home with services; Other (Jail, Mental Institution, etc.). Please note the difference in axis scale between the top and bottom graphs.

*A table with values for ED Disposition by ISS is found on page 49.

Indiana Trauma Registry

Statewide Quarter 2 Data Report

April 1, 2015—June 30, 2015

8,605 Incidents

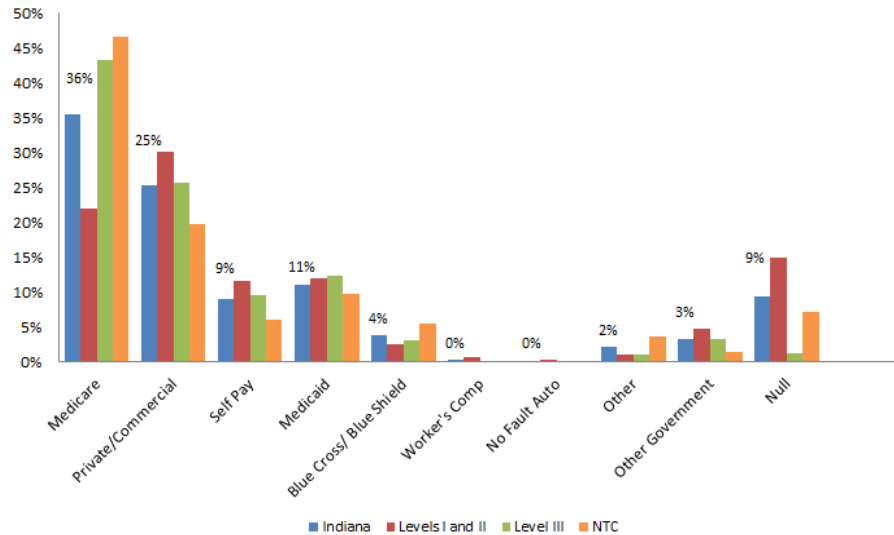
95 Total Hospitals Reporting

Level I and II: 9 facilities 42.6% of data

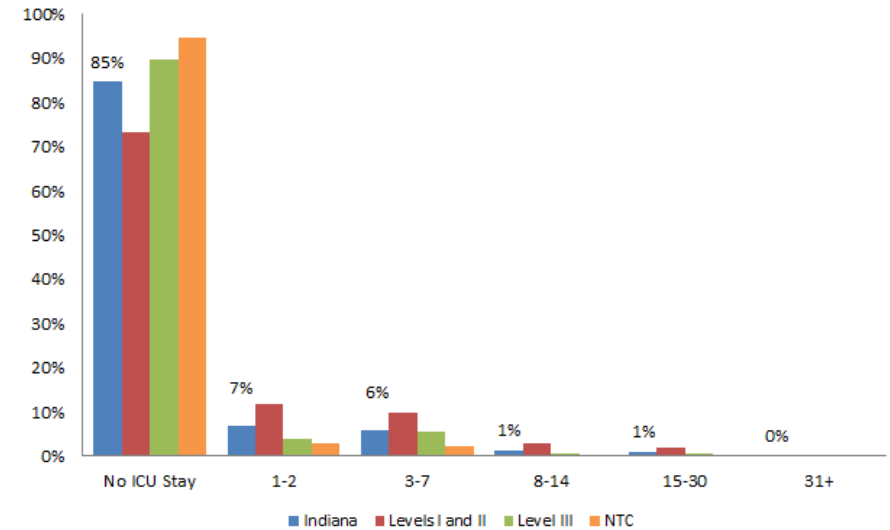
Level III: 10 facilities 16.6% of data

(Non-Trauma) Hospitals: 76 facilities 40.8% of data

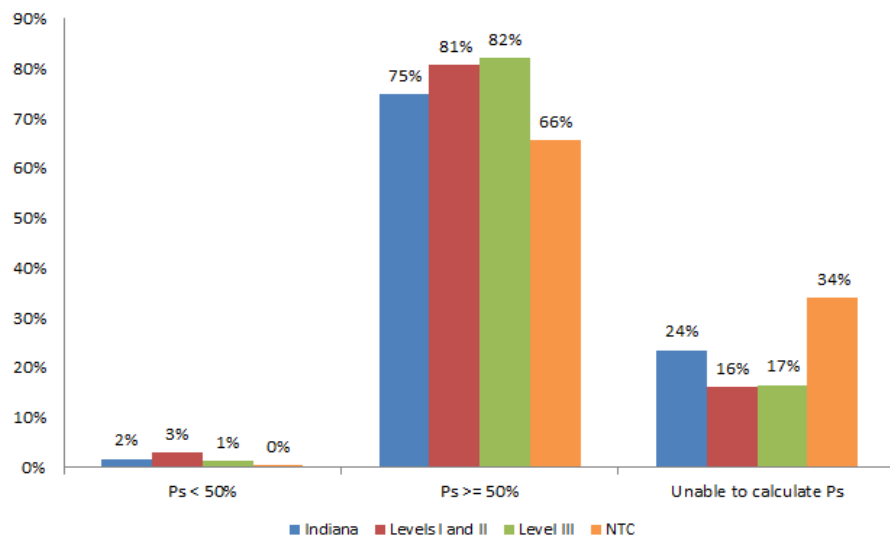
Primary Payer Mix



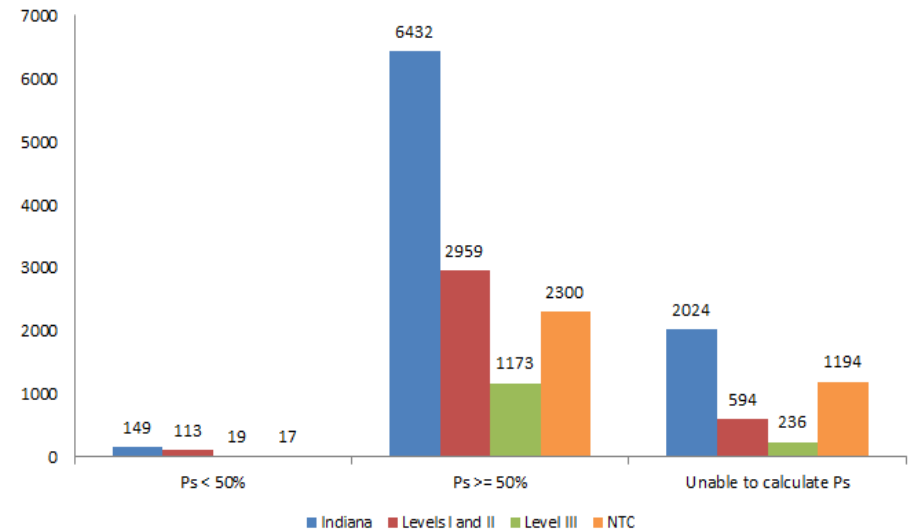
ICU Length of Stay (Days)



Probability of Survival (Ps) by Percent



Probability of Survival (Ps) by Count



Due to the many data points required to calculate Ps, not every patient has a calculated Ps. These two graph represents 6,581 incidents with calculated Ps.

Indiana Trauma Registry

Statewide Quarter 2 Data Report

April 1, 2015—June 30, 2015

8,605 Incidents

95 Total Hospitals Reporting

Level I and II:

9 facilities

42.6% of data

Level III:

10 facilities

16.6% of data

(Non-Trauma) Hospitals:

76 facilities

40.8% of data

Probability of Survival Components—All Patients

		Count Missing				Percent Missing			
Components		Indiana	Levels I and II	Level III	Non-Trauma Center	Indiana	Levels I and II	Level III	Non-Trauma Centers
RTS	GCS	1768	508	180	1080	20.55%	13.86%	12.61%	30.76%
	SBP	440	103	64	273	5.11%	2.81%	4.48%	7.78%
	Respiratory Rate	374	110	42	222	4.35%	3.00%	2.94%	6.32%
ISS		6	0	0	6	0.07%	0.00%	0.00%	0.17%
Age		2	0	0	2	0.02%	0.00%	0.00%	0.06%

$$\text{RTS} = 0.9368 * \text{GCS} + 0.7326 * \text{SBP} + 0.2908 * \text{Respiratory Rate}$$

Indiana Trauma Registry

Statewide Quarter 2 Data Report

April 1, 2015—June 30, 2015

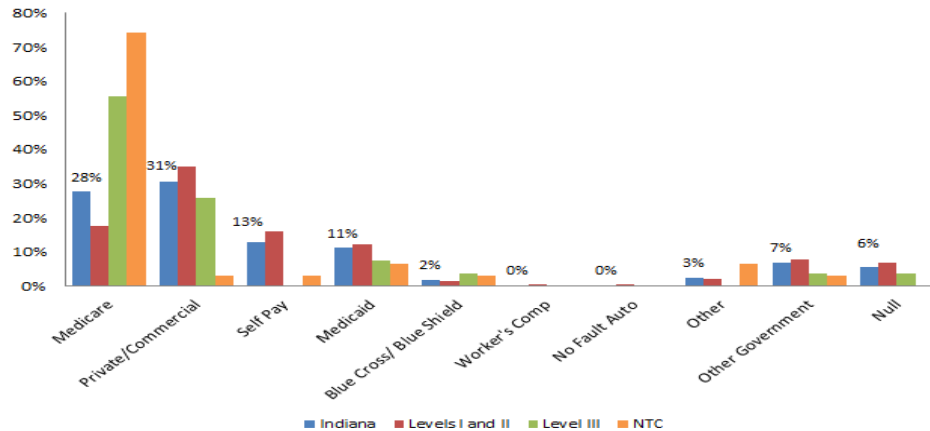
8,605 Incidents

95 Total Hospitals Reporting

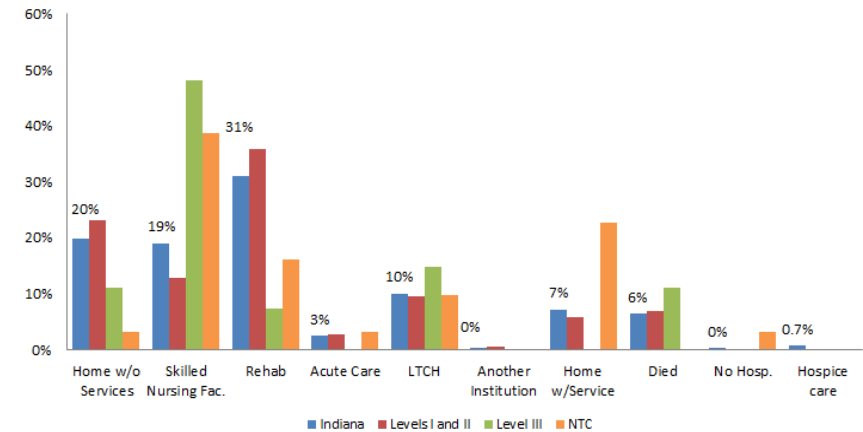
Level I and II:	9 facilities	42.6% of data
Level III:	10 facilities	16.6% of data
(Non-Trauma) Hospitals:	76 facilities	40.8% of data

Hospital Length of Stay > 15 days, N=278

Primary Payer Mix

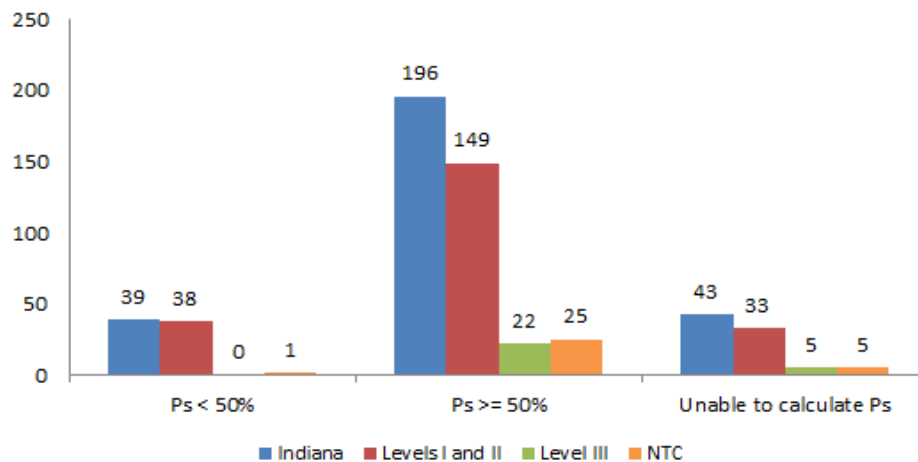


Hospital Disposition

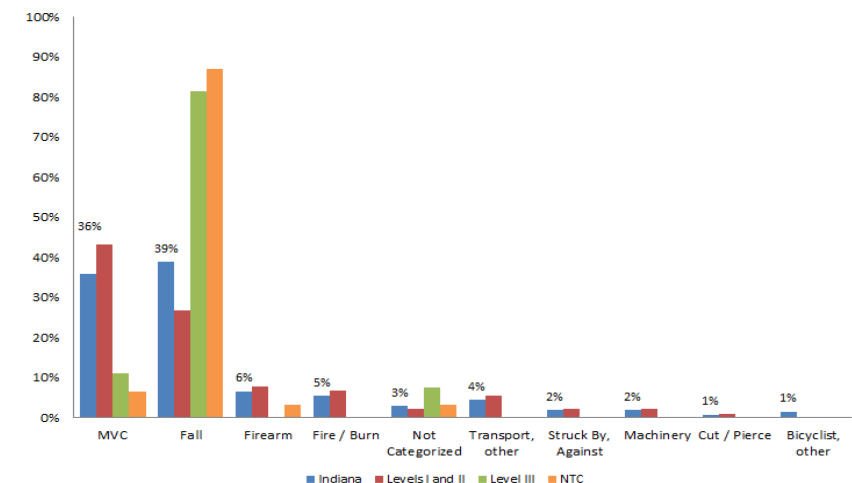


Another Institution includes any other medical facility not defined in the other categories.

Probability of Survival



Cause of Injury



Hospital Length of Stay > 15 Days: Total N=278;
Level III N=27;

Levels I and II N= 220;
NTC N=31

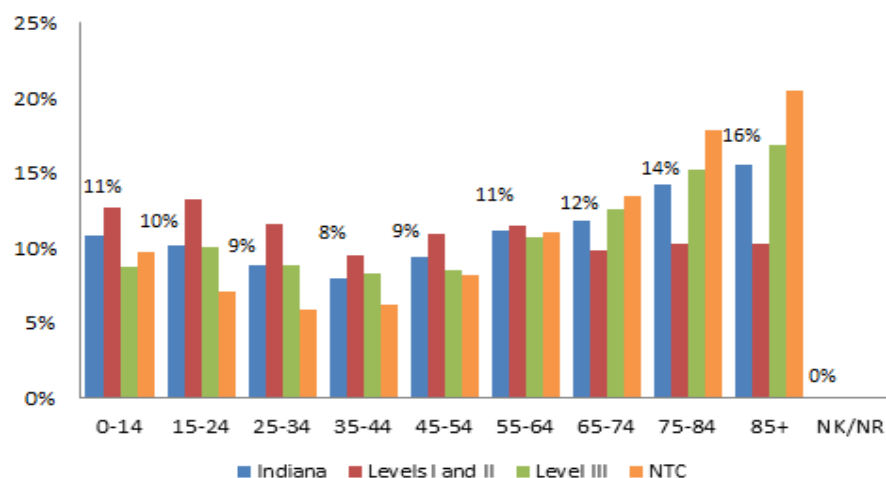
Indiana Trauma Registry

Statewide Quarter 2 Data Report April 1, 2015—June 30, 2015 8,605 Incidents

95 Total Hospitals Reporting

Level I and II:	9 facilities	42.6% of data
Level III:	10 facilities	16.6% of data
(Non-Trauma) Hospitals:	76 facilities	40.8% of data

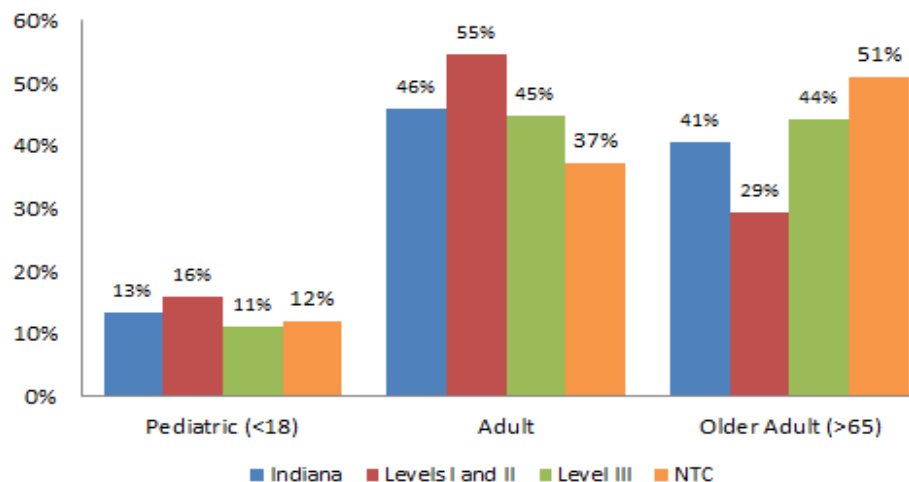
Patient Age (Years)



There were 2 unknown ages.

Age Group	Indiana	I and II	III	NTC
0-14	932	464	125	343
15-24	878	486	144	248
25-34	761	427	127	207
35-44	684	348	119	217
45-54	810	402	122	286
55-64	965	423	153	389
65-74	1015	362	179	474
75-84	1222	377	218	627
85+	1336	377	241	718
NK/NR	2	0	0	2
Total	8605	3666	1428	3511

Patient Age Groupings



Age Group	Indiana	I and II	III	NTC
Pediatric	1160	582	159	419
Adult	3950	2005	639	1306
Older Adult	3493	1079	630	1784
Total	8603	3666	1428	3509

Indiana Trauma Registry

Statewide Quarter 2 Data Report

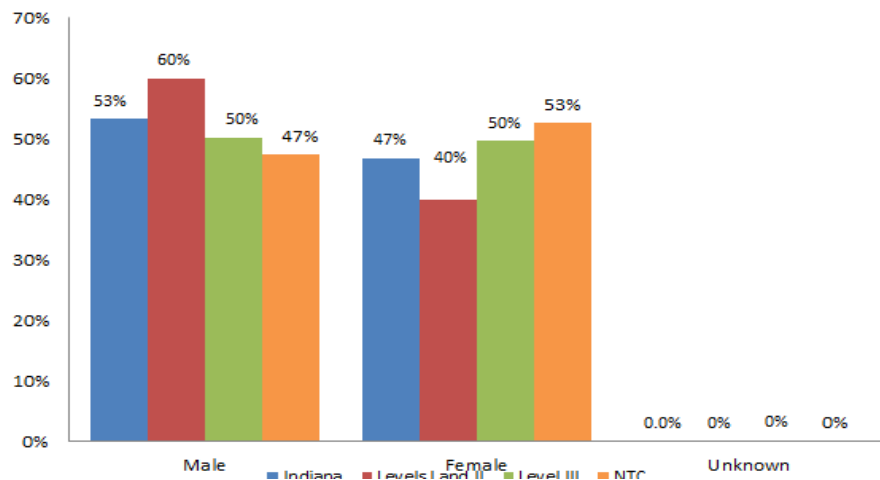
April 1, 2015—June 30, 2015

8,605 Incidents

95 Total Hospitals Reporting

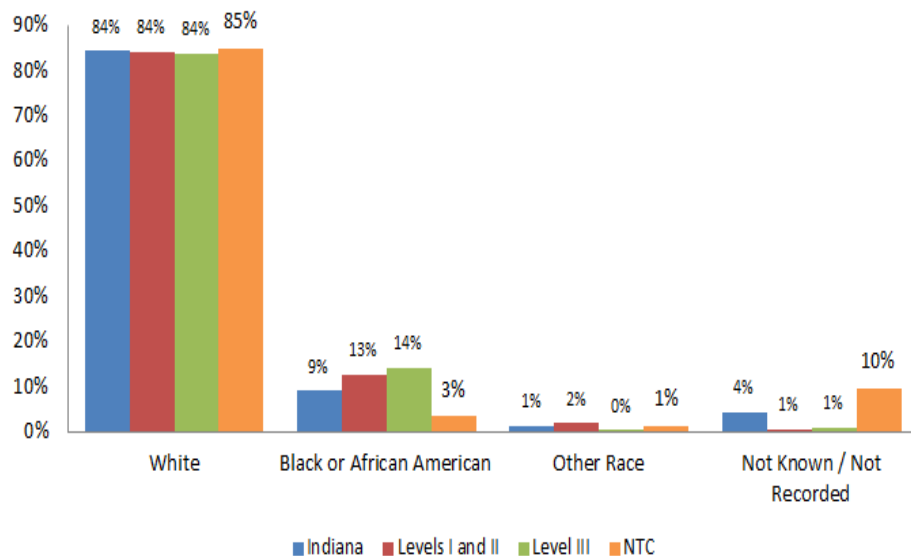
Level I and II:	9 facilities	42.6% of data
Level III:	10 facilities	16.6% of data
(Non-Trauma) Hospitals:	76 facilities	40.8% of data

Patient Gender



Gender	Indiana	I and II	III	NTC
Male	4581	2199	717	1665
Female	4021	1467	709	1845
Unknown	3	0	2	1
Total	8605	3666	1428	3511

Patient Race



Race	Indiana	I and II	III	NTC
White	7263	3084	1195	2984
Black or African American	785	460	203	122
Other	120	68	5	47
Not Known/Not Recorded	376	22	15	339
American Indian or Alaska Native	10	5	2	3
Asian	45	24	8	13
Native Hawaiian or Pacific Islander	6	3	0	3
Total	8605	3666	1428	3511

<1% Race - Asian, Native Hawaiian or Other Pacific Islander, American Indian or Alaska Native

Indiana Trauma Registry

Statewide Quarter 2 Data Report

April 1, 2015—June 30, 2015

8,605 Incidents

95 Total Hospitals Reporting

Level I and II:

9 facilities

42.6% of data

Level III:

10 facilities

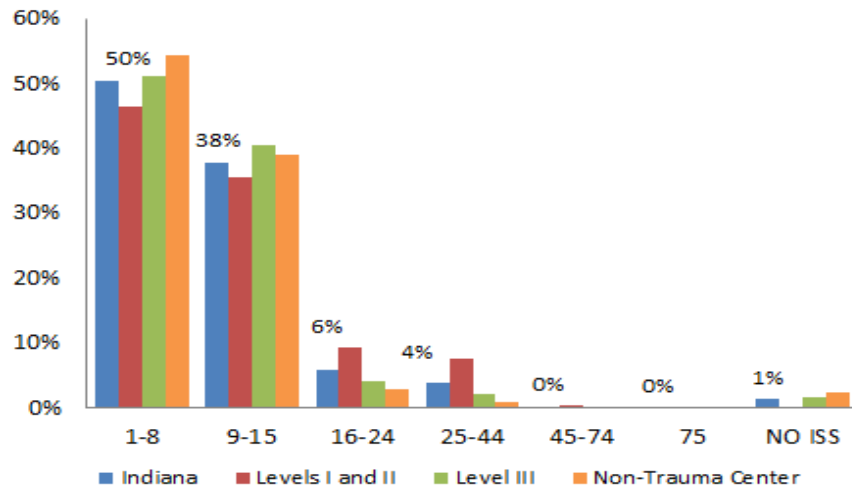
16.6% of data

(Non-Trauma) Hospitals:

76 facilities

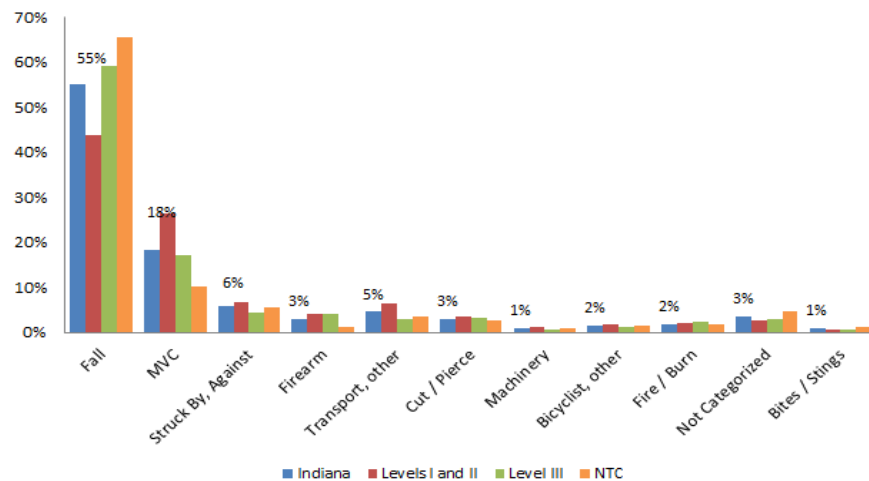
40.8% of data

Injury Severity Score (ISS)



There were 22 and 10 cases in the 45-74 and 75+ categories, respectively

Cause of Injury



<1% COI: Pedestrian Traffic Accident, Natural/Environment, Overexertion, No E-Code

ISS Category	Indiana	I and II	III	NTC
1-8	4344	1703	732	1909
9-15	3262	1306	580	1376
16-24	504	341	61	102
25-44	347	280	30	37
45-74	22	20	0	2
75	10	8	2	0
No ISS	116	8	23	85
Total	8605	3666	1428	3511

Cause of Injury	Indiana	I and II	III	NTC
Fall	4757	1611	845	2301
MVC	1577	968	247	362
Struck By, Against	507	250	64	193
Firearm	256	152	58	46
Transport	398	232	43	123
Cut/Pierce	264	125	45	94
Machinery	80	40	8	32
Bicyclist	135	65	18	52
Fire/Burn	164	73	33	58
Not Categorized	301	95	41	165
Bites/Stings	76	25	9	42

Indiana Trauma Registry

Statewide Quarter 2 Data Report

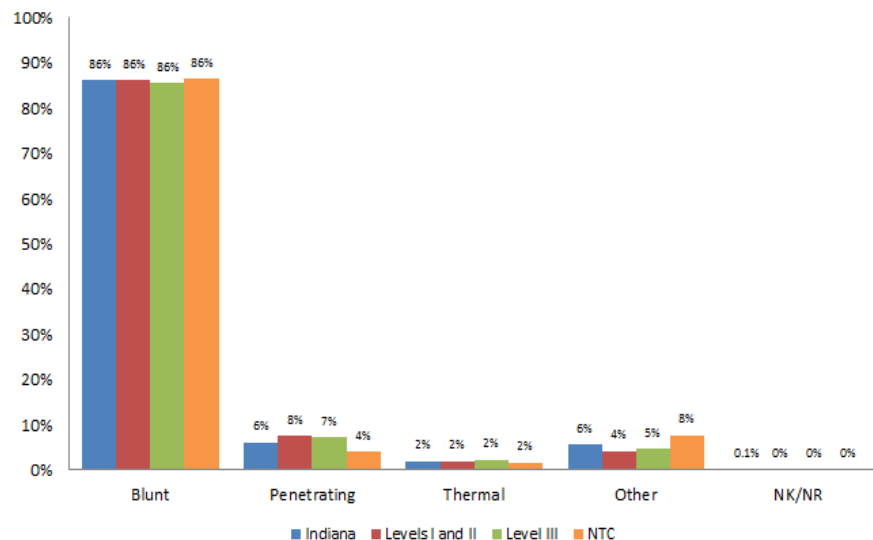
April 1, 2015—June 30, 2015

8,605 Incidents

95 Total Hospitals Reporting

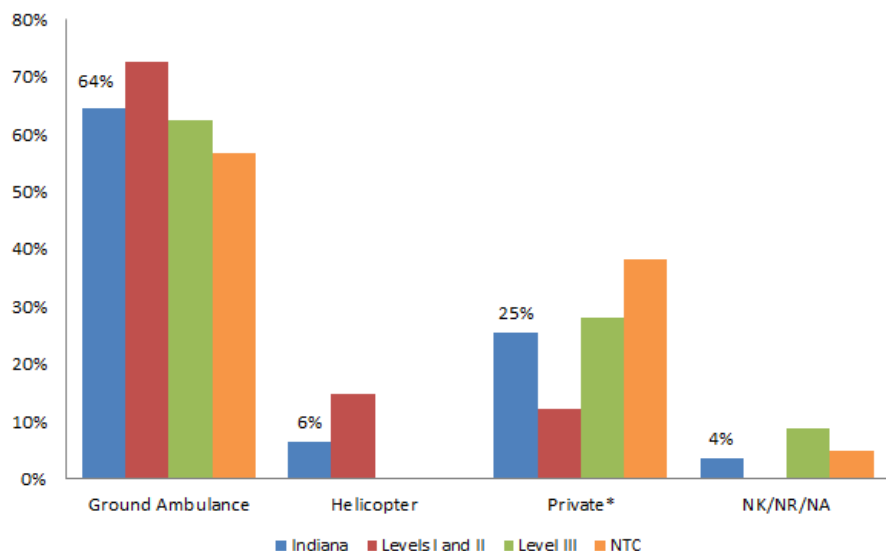
Level I and II:	9 facilities	42.6% of data
Level III:	10 facilities	16.6% of data
(Non-Trauma) Hospitals:	76 facilities	40.8% of data

Trauma Type



Trauma Type	Indiana	I and II	III	NTC
Blunt	7419	3161	1222	3036
Penetrating	520	277	103	140
Thermal	164	73	33	58
Other	490	153	67	270
NK/NR	12	2	3	7
Total	8605	3666	1428	3511

Transport Mode



Transport Mode	Indiana	I and II	III	NTC
Ground Ambulance	5548	2666	891	1991
Helicopter	545	541	4	0
Private	2190	448	402	1340
NK/NR/NA	303	4	126	173
Police	17	6	5	6
Other	0	0	0	0
Total	8603	3665	1428	3510

<1% Transport Mode: Police, Other

* Indicates Private/ Public Vehicle, Walk-in

Indiana Trauma Registry

Statewide Quarter 2 Data Report

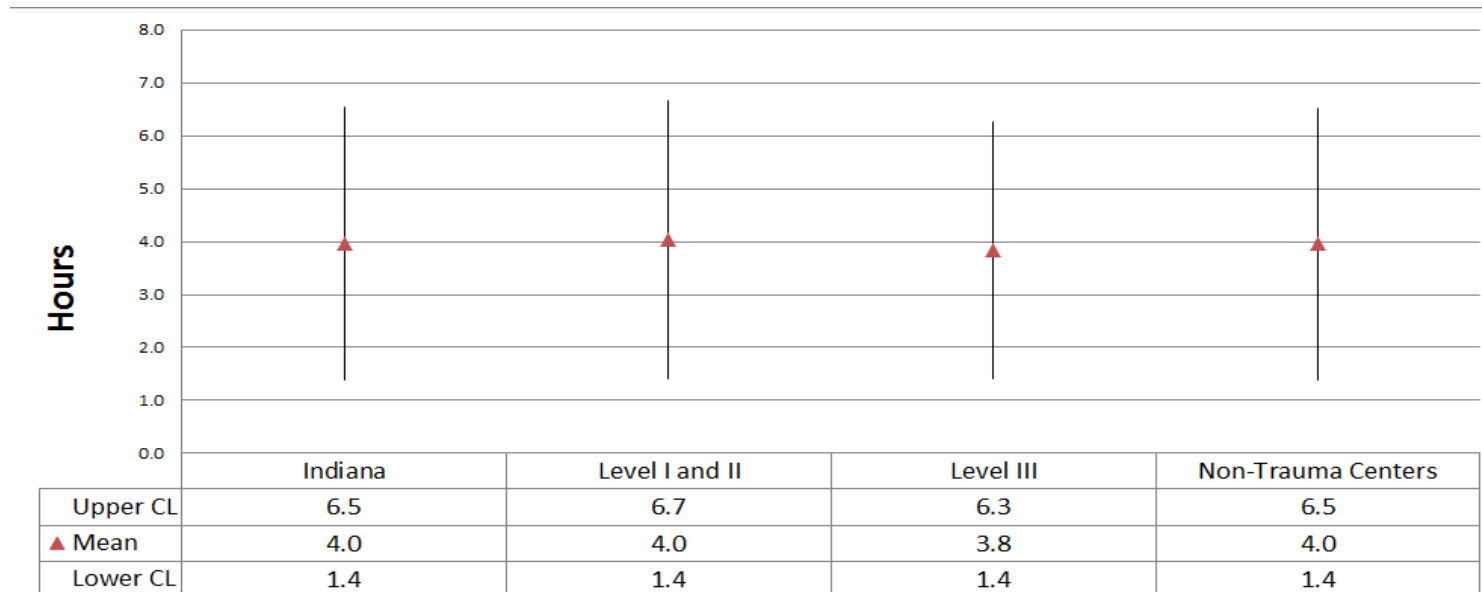
April 1, 2015—June 30, 2015

8,605 Incidents

95 Total Hospitals Reporting

Level I and II:	9 facilities	42.6% of data
Level III:	10 facilities	16.6% of data
(Non-Trauma) Hospitals:	76 facilities	40.8% of data

All Patients Average ED LOS (Hours)



The purpose of the caterpillar graphs is to compare different groups to the average ED LOS. The Indiana mean is the comparison group, which is represented by the black line.

The ED LOS for these graphs was modeled using time-to-event analysis. The purposes of using this analysis were to account for censoring (death) and to see how variables influence ED LOS. The outcome variable was ED LOS and the independent variables were total GCS and age. If total GCS was missing but manual total GCS was recorded, then the manual total GCS was used. These two variables were used because they were the most similar to variables used in the published, peer-reviewed literature on ED LOS. Both were significant in the model. Increasing total GCS and age led to a slightly shorter ED LOS. Hospitals that did not have enough incidents with total GCS or age could not be modeled.

In the chart on the left, note the trauma center average is above the mean and the non-trauma center is below the mean. The mean, 95% confidence limit and lower confidence limit are listed for each group.

In the chart on the right, the data is for the trauma centers. The trauma center average is in the first column on the left side. The information for each trauma center has been assigned a random number for confidentiality. The mean, 95% confidence limit and lower confidence limit are listed for each group.

Indiana Trauma Registry

Statewide Quarter 2 Data Report

April 1, 2015—June 30, 2015

8,605 Incidents

95 Total Hospitals Reporting

Level I and II:

9 facilities

42.6% of data

Level III:

10 facilities

16.6% of data

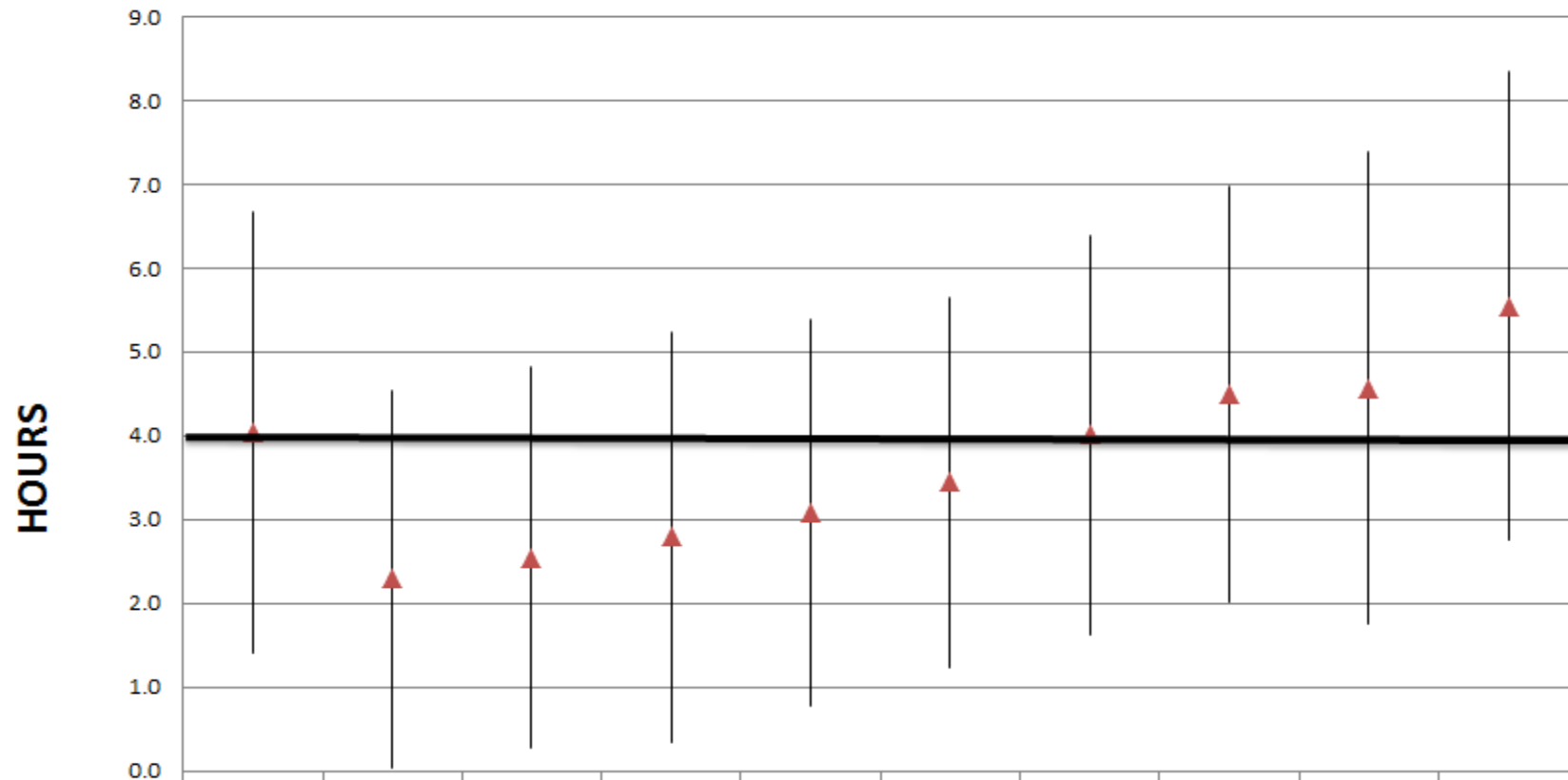
(Non-Trauma) Hospitals:

76 facilities

40.8% of data

All Patients

Level I and II Trauma Centers ED LOS (Hours)



	Levels I and II	ID 69	ID 76	ID 121	ID 105	ID 60	ID 91	ID 30	ID 83	ID 49
Upper CL	6.7	4.5	4.8	5.2	5.4	5.7	6.4	7.0	7.4	8.4
▲ Mean	4.0	2.3	2.5	2.8	3.1	3.4	4.0	4.5	4.6	5.6
Lower CL	1.4	0.0	0.3	0.3	0.8	1.2	1.6	2.0	1.7	2.7

Indiana Trauma Registry

Statewide Quarter 2 Data Report

April 1, 2015—June 30, 2015

8,605 Incidents

95 Total Hospitals Reporting

Level I and II:

9 facilities

42.6% of data

Level III:

10 facilities

16.6% of data

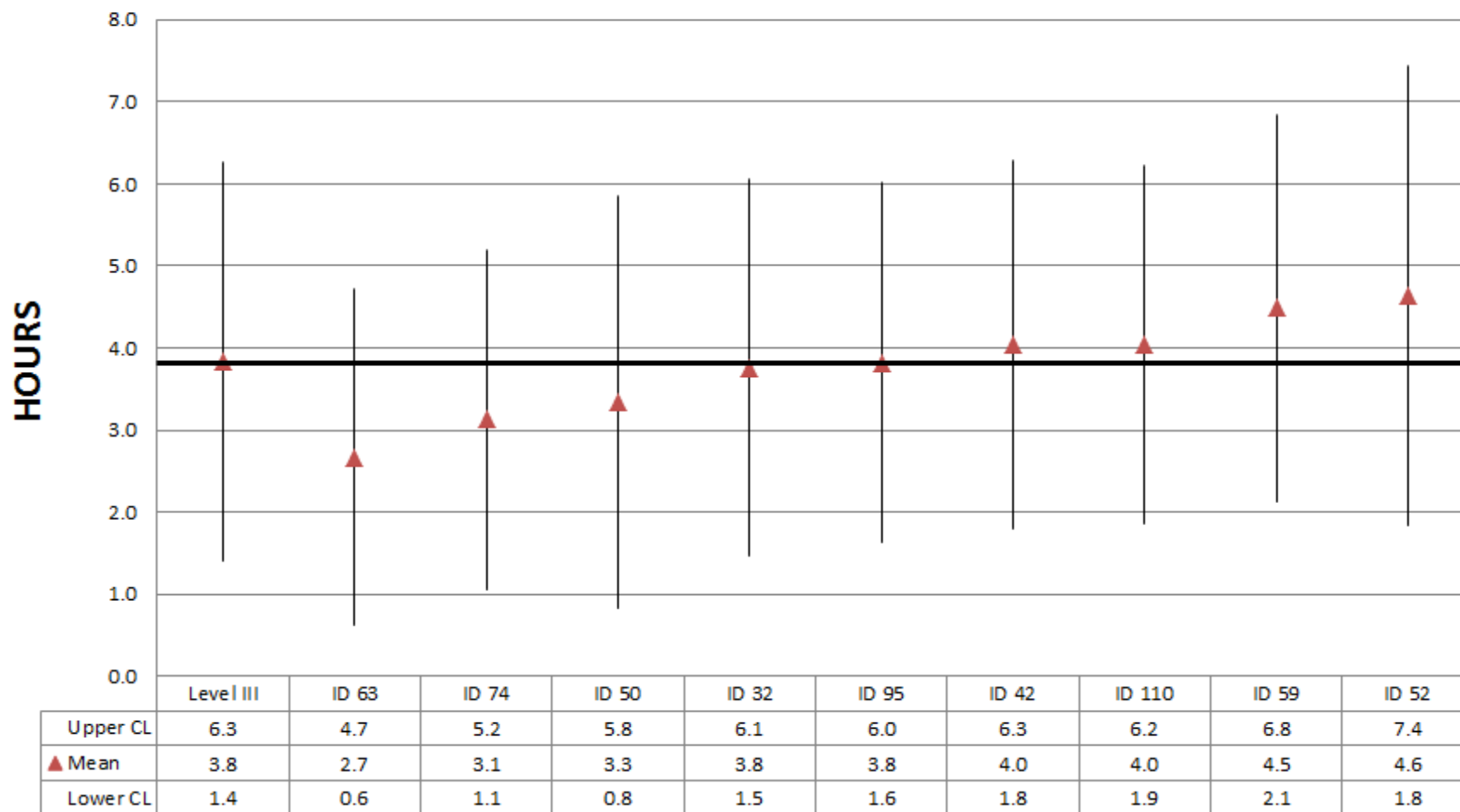
(Non-Trauma) Hospitals:

76 facilities

40.8% of data

All Patients

Level III Trauma Centers ED LOS (Hours)



Indiana Trauma Registry

Statewide Quarter 2 Data Report

April 1, 2015—June 30, 2015

8,605 Incidents

95 Total Hospitals Reporting

Level I and II:

9 facilities

42.6% of data

Level III:

10 facilities

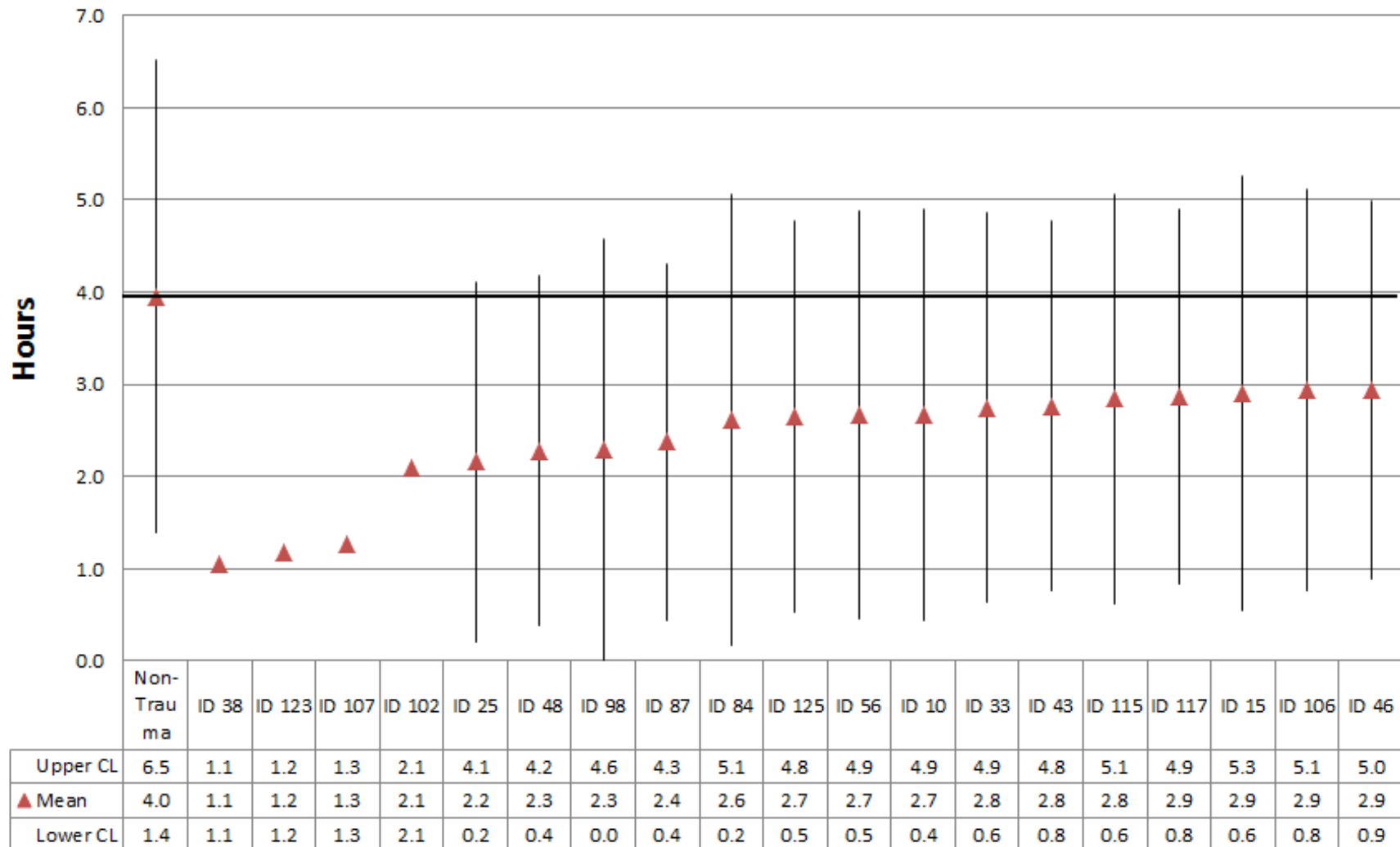
16.6% of data

(Non-Trauma) Hospitals:

76 facilities

40.8% of data

All Patients Non-Trauma Centers- Average ED LOS (Hours)



Indiana Trauma Registry

Statewide Quarter 2 Data Report

April 1, 2015—June 30, 2015

8,605 Incidents

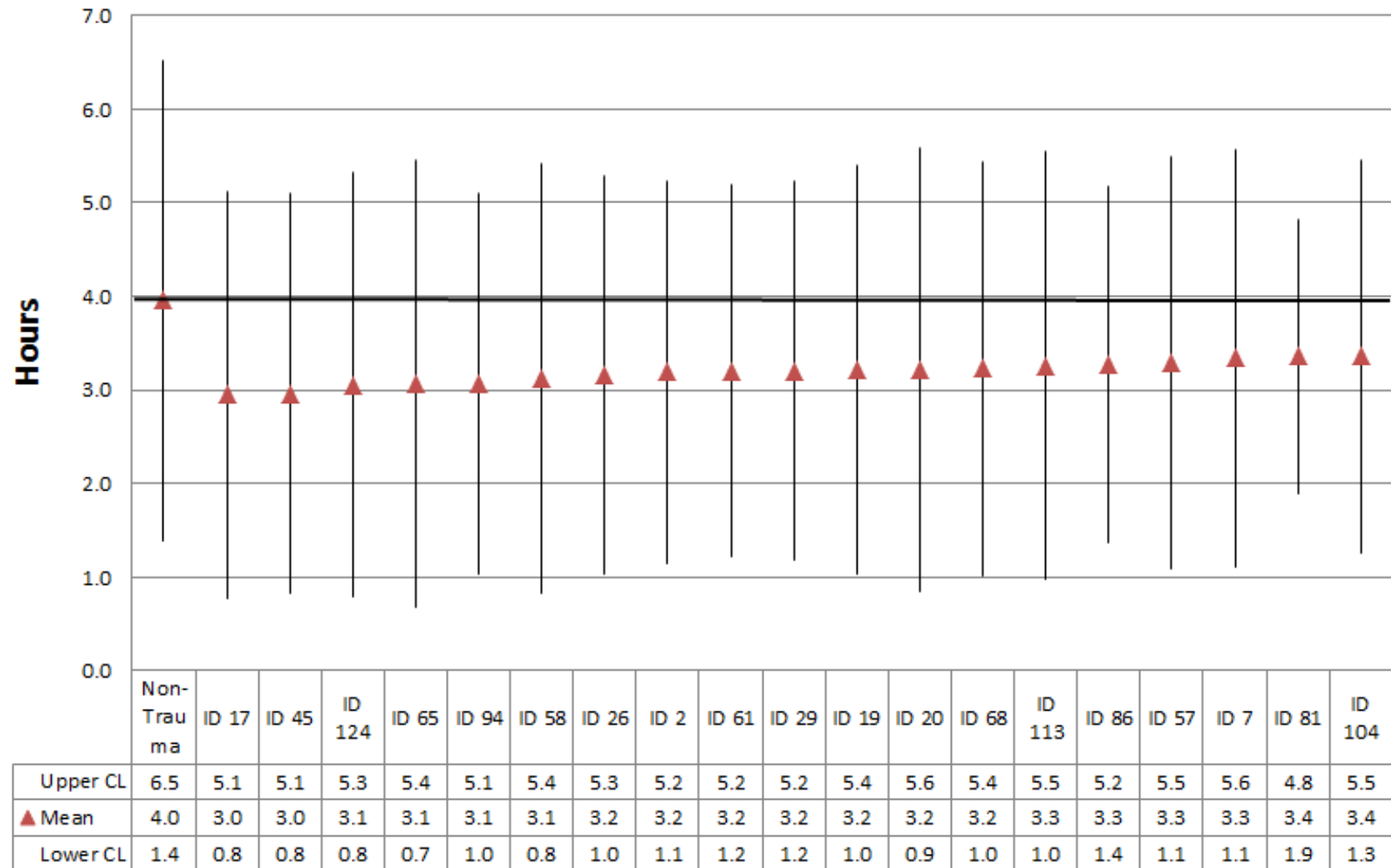
95 Total Hospitals Reporting

Level I and II: 9 facilities 42.6% of data

Level III: 10 facilities 16.6% of data

(Non-Trauma) Hospitals: 76 facilities 40.8% of data

All Patients Non-Trauma Centers- Average ED LOS (Hours)



Indiana Trauma Registry

Statewide Quarter 2 Data Report

April 1, 2015—June 30, 2015

8,605 Incidents

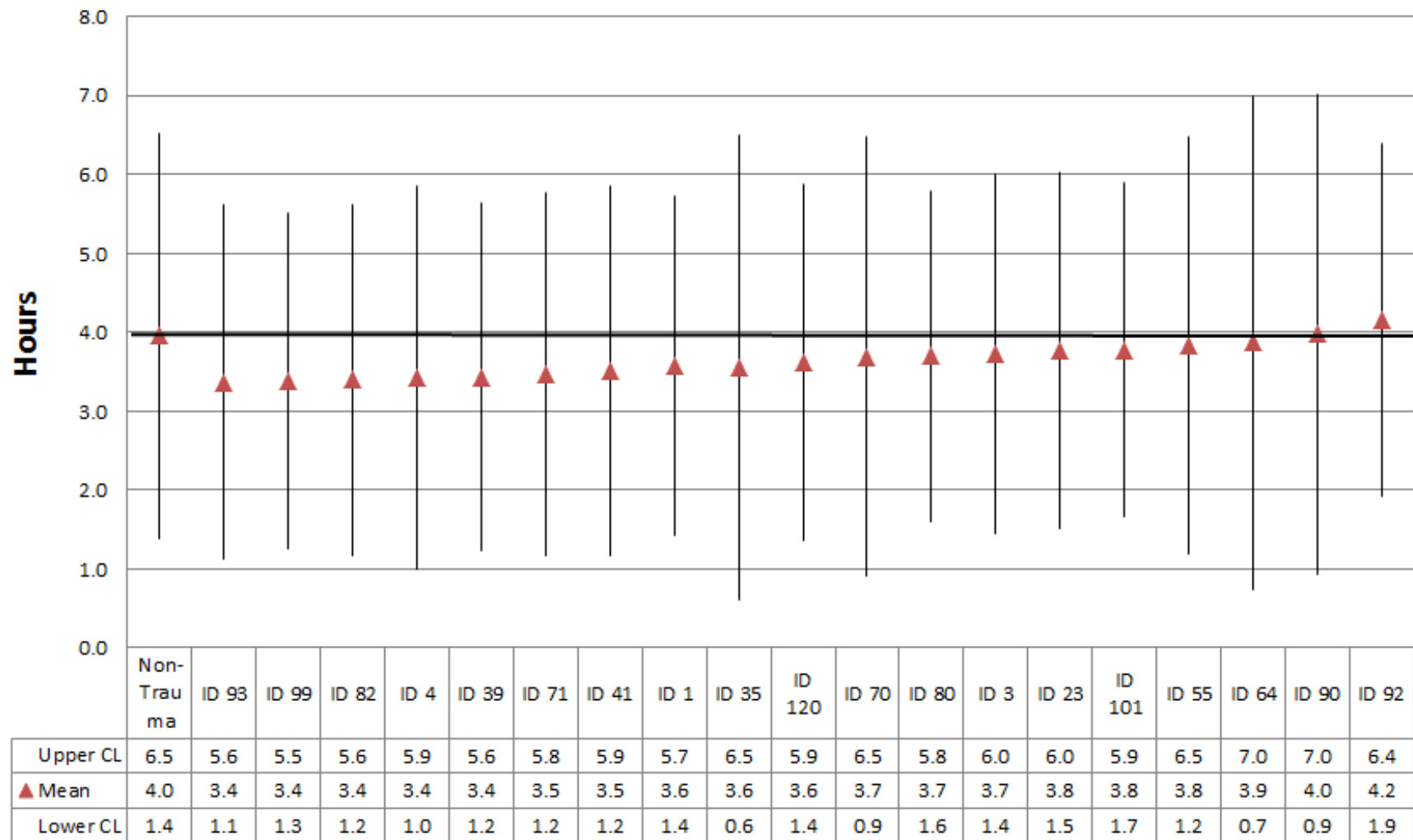
95 Total Hospitals Reporting

Level I and II: 9 facilities 42.6% of data

Level III: 10 facilities 16.6% of data

(Non-Trauma) Hospitals: 76 facilities 40.8% of data

All Patients Non-Trauma Centers- Average ED LOS (Hours)



Indiana Trauma Registry

Statewide Quarter 2 Data Report

April 1, 2015—June 30, 2015

8,605 Incidents

95 Total Hospitals Reporting

Level I and II:

9 facilities

42.6% of data

Level III:

10 facilities

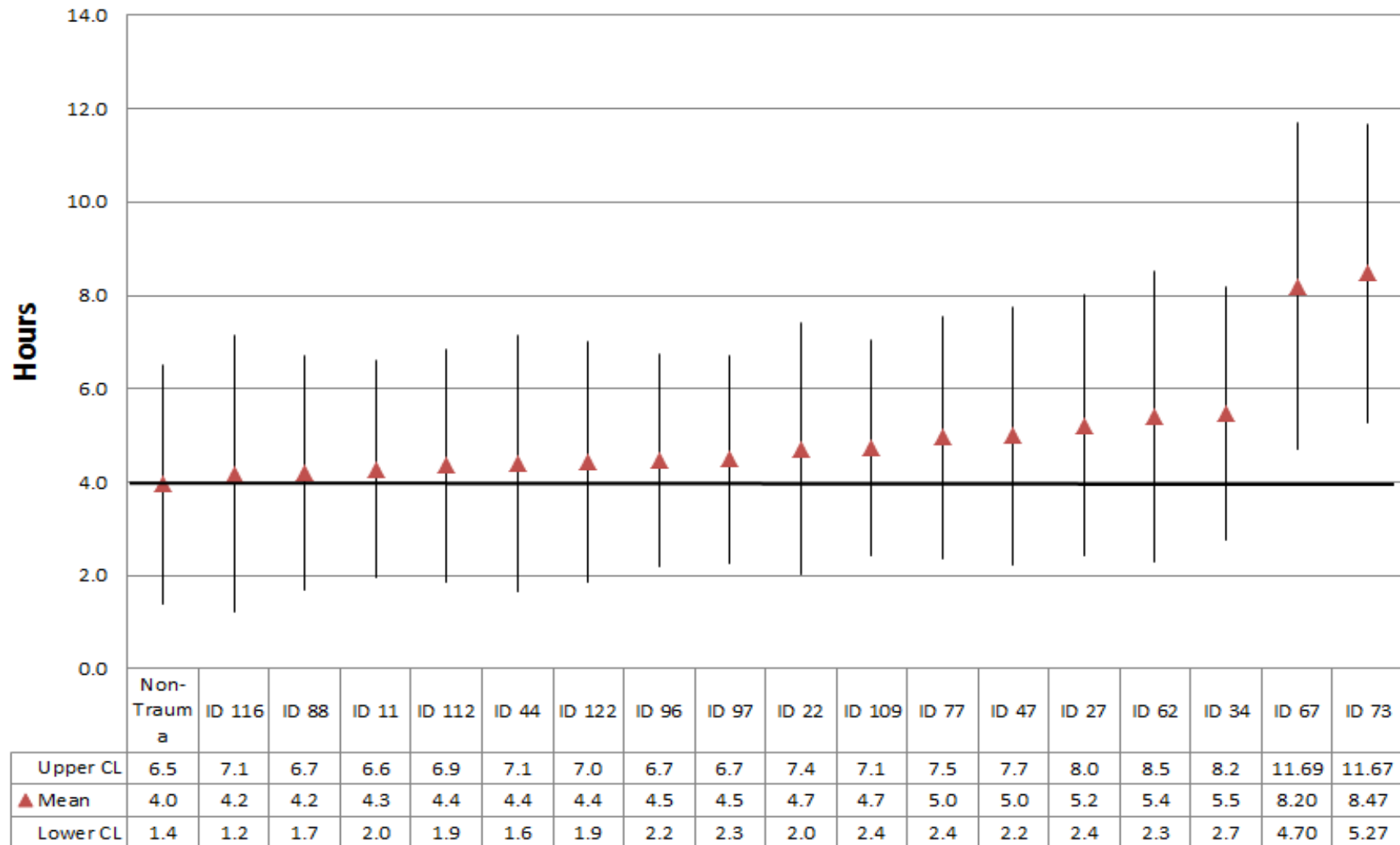
16.6% of data

(Non-Trauma) Hospitals:

76 facilities

40.8% of data

All Patients Non-Trauma Centers- Average ED LOS (Hours)



Indiana Trauma Registry

Statewide Quarter 2 Data Report

April 1, 2015—June 30, 2015

8,605 Incidents

95 Total Hospitals Reporting

Level I and II:

9 facilities

42.6% of data

Level III:

10 facilities

16.6% of data

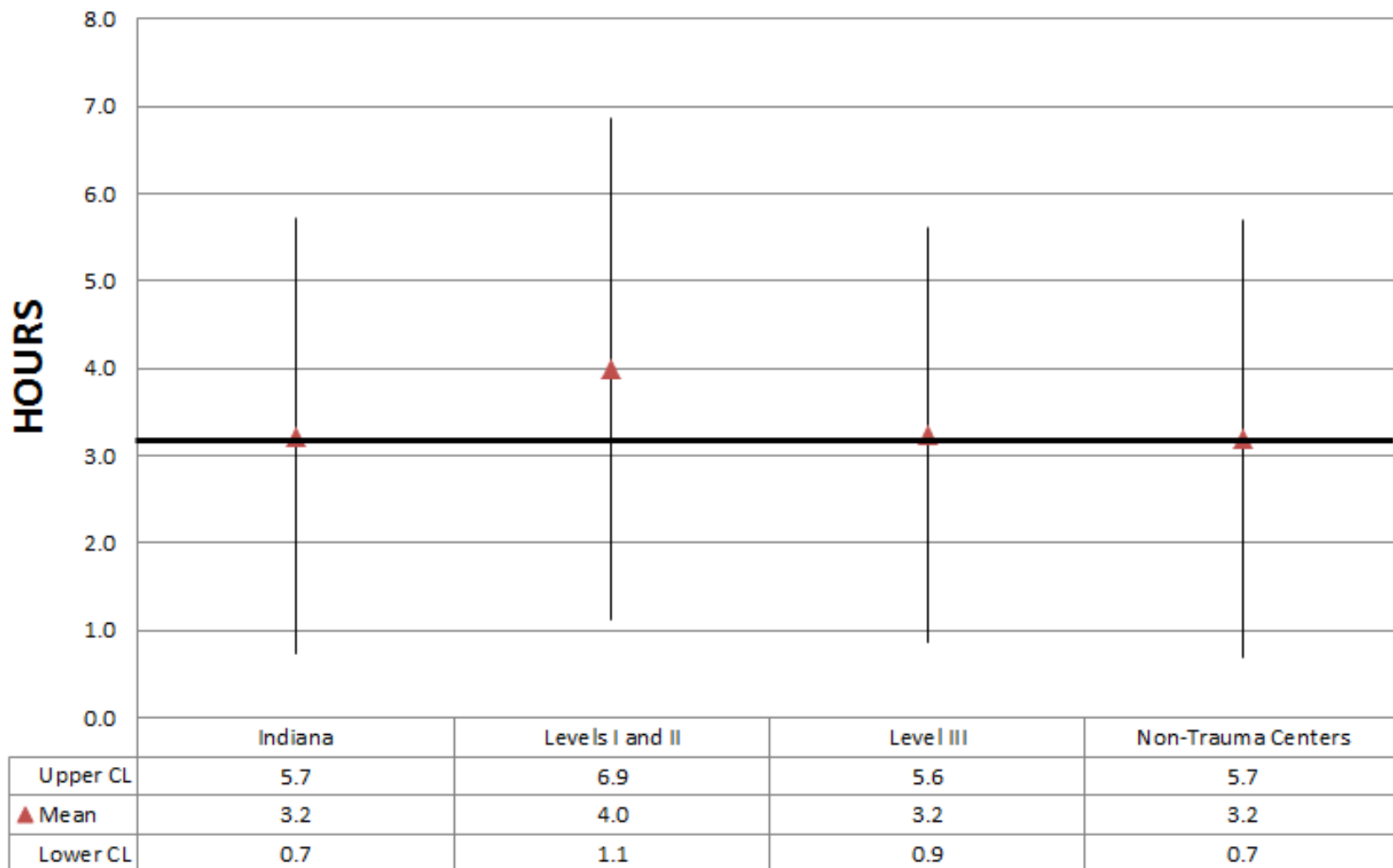
(Non-Trauma) Hospitals:

76 facilities

40.8% of data

ED Disposition = Transferred

Average ED LOS (Hours)



Indiana Trauma Registry

Statewide Quarter 2 Data Report

April 1, 2015—June 30, 2015

8,605 Incidents

95 Total Hospitals Reporting

Level I and II:

9 facilities

42.6% of data

Level III:

10 facilities

16.6% of data

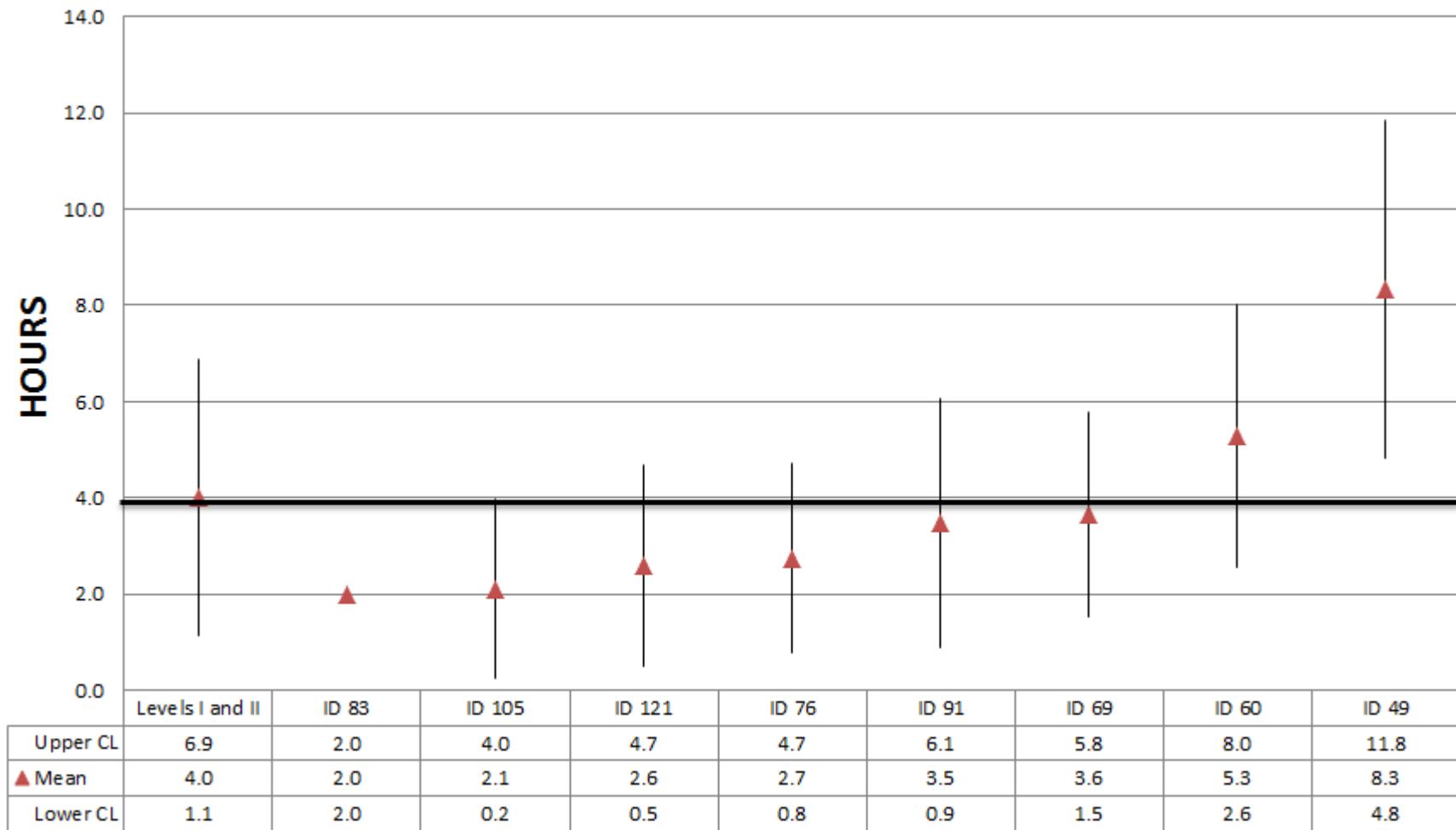
(Non-Trauma) Hospitals:

76 facilities

40.8% of data

ED Disposition = Transferred

Level I and II Trauma Centers- Average ED LOS (Hours)



Indiana Trauma Registry

Statewide Quarter 2 Data Report

April 1, 2015—June 30, 2015

8,605 Incidents

95 Total Hospitals Reporting

Level I and II:

9 facilities

42.6% of data

Level III:

10 facilities

16.6% of data

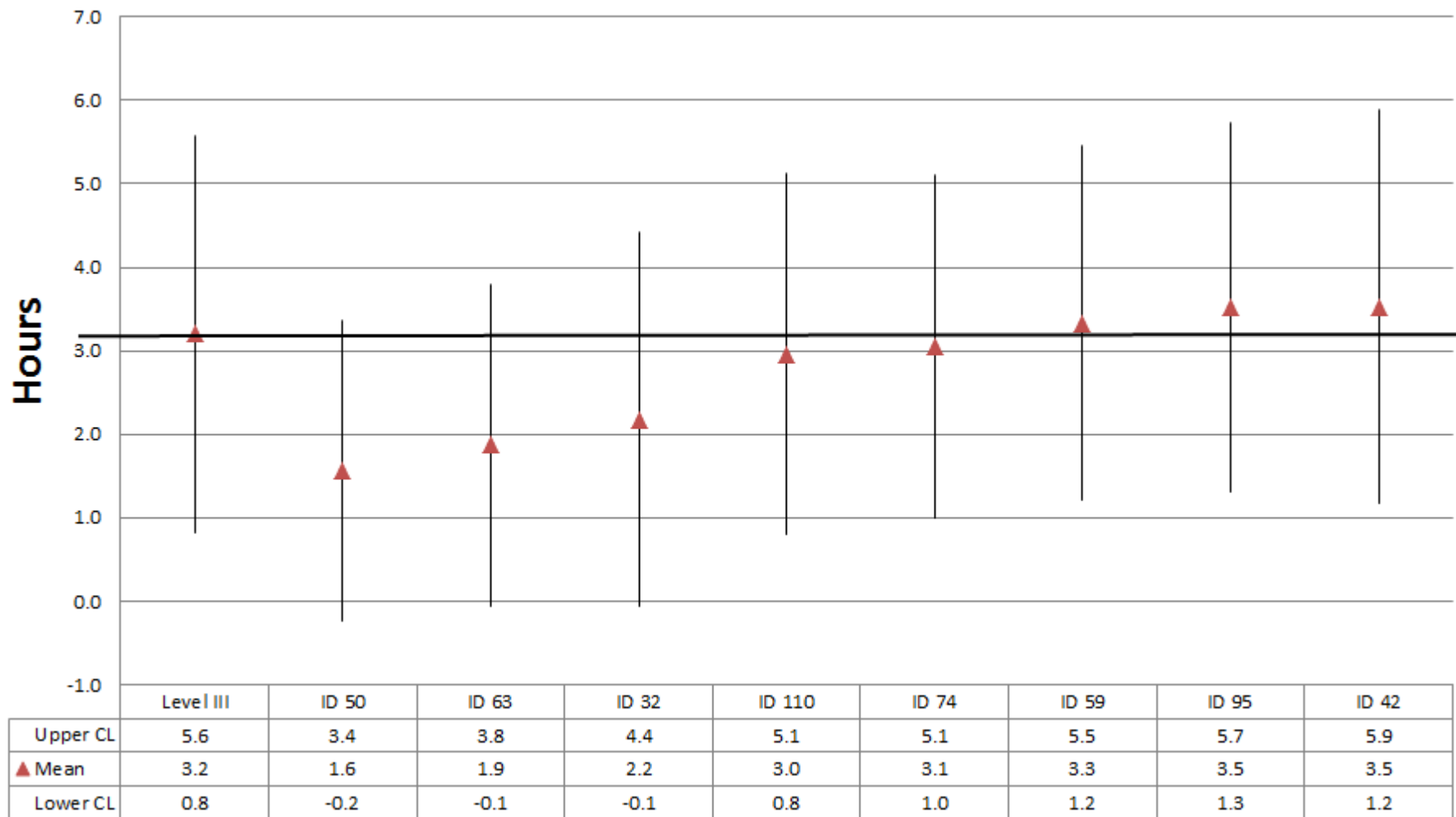
(Non-Trauma) Hospitals:

76 facilities

40.8% of data

ED Disposition = Transferred

Level III Trauma Centers- Average ED LOS (Hours)



Indiana Trauma Registry

Statewide Quarter 2 Data Report

April 1, 2015—June 30, 2015

8,605 Incidents

95 Total Hospitals Reporting

Level I and II:

9 facilities

42.6% of data

Level III:

10 facilities

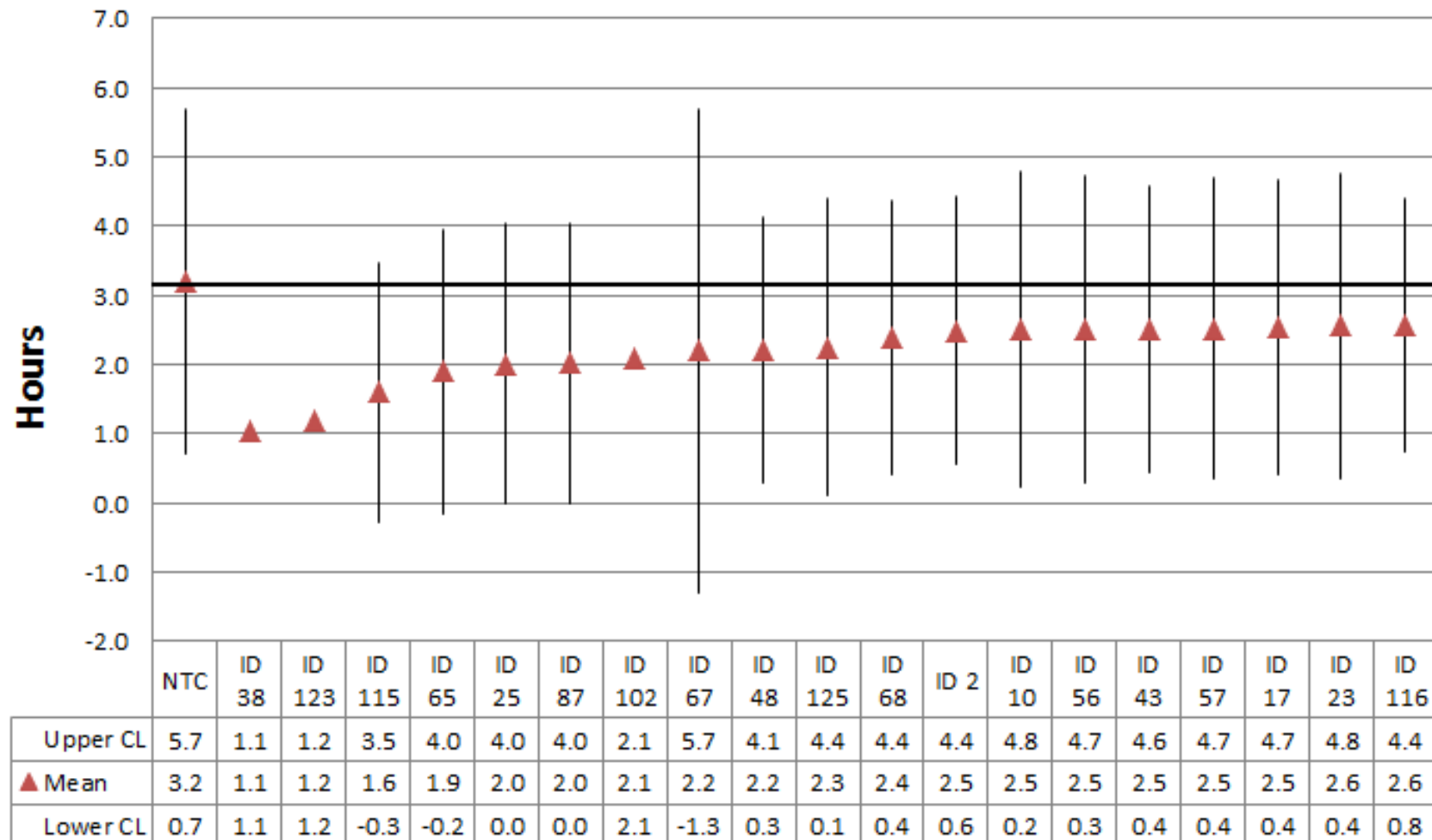
16.6% of data

(Non-Trauma) Hospitals:

76 facilities

40.8% of data

ED Disposition = Transferred
Non-Trauma Centers-
Average ED LOS (Hours)



Indiana Trauma Registry

Statewide Quarter 2 Data Report

April 1, 2015—June 30, 2015

8,605 Incidents

95 Total Hospitals Reporting

Level I and II:

9 facilities

42.6% of data

Level III:

10 facilities

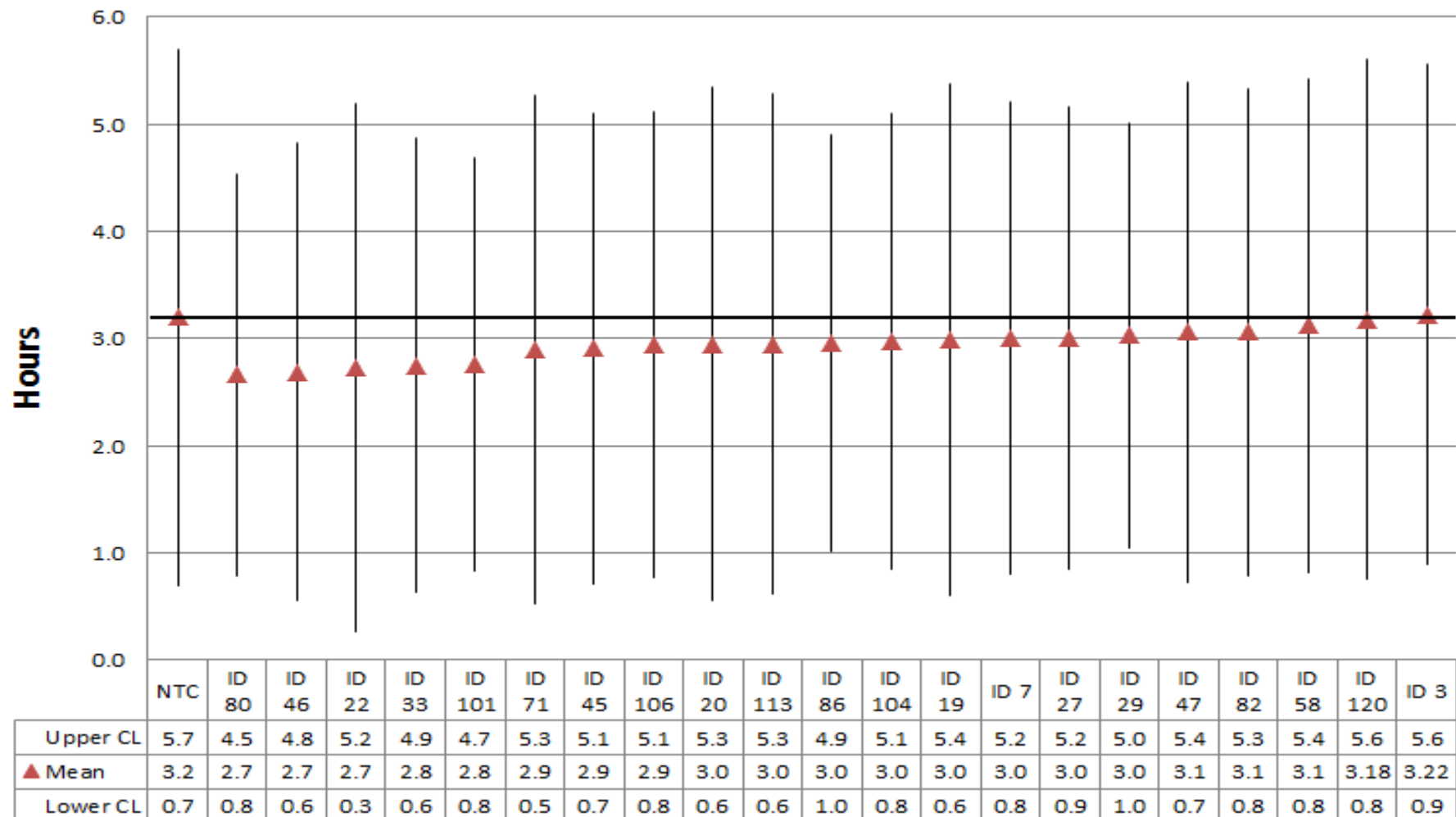
16.6% of data

(Non-Trauma) Hospitals:

76 facilities

40.8% of data

ED Disposition = Transferred
Non-Trauma Centers-
Average ED LOS (Hours)



Indiana Trauma Registry

Statewide Quarter 2 Data Report

April 1, 2015—June 30, 2015

8,605 Incidents

95 Total Hospitals Reporting

Level I and II:

9 facilities

42.6% of data

Level III:

10 facilities

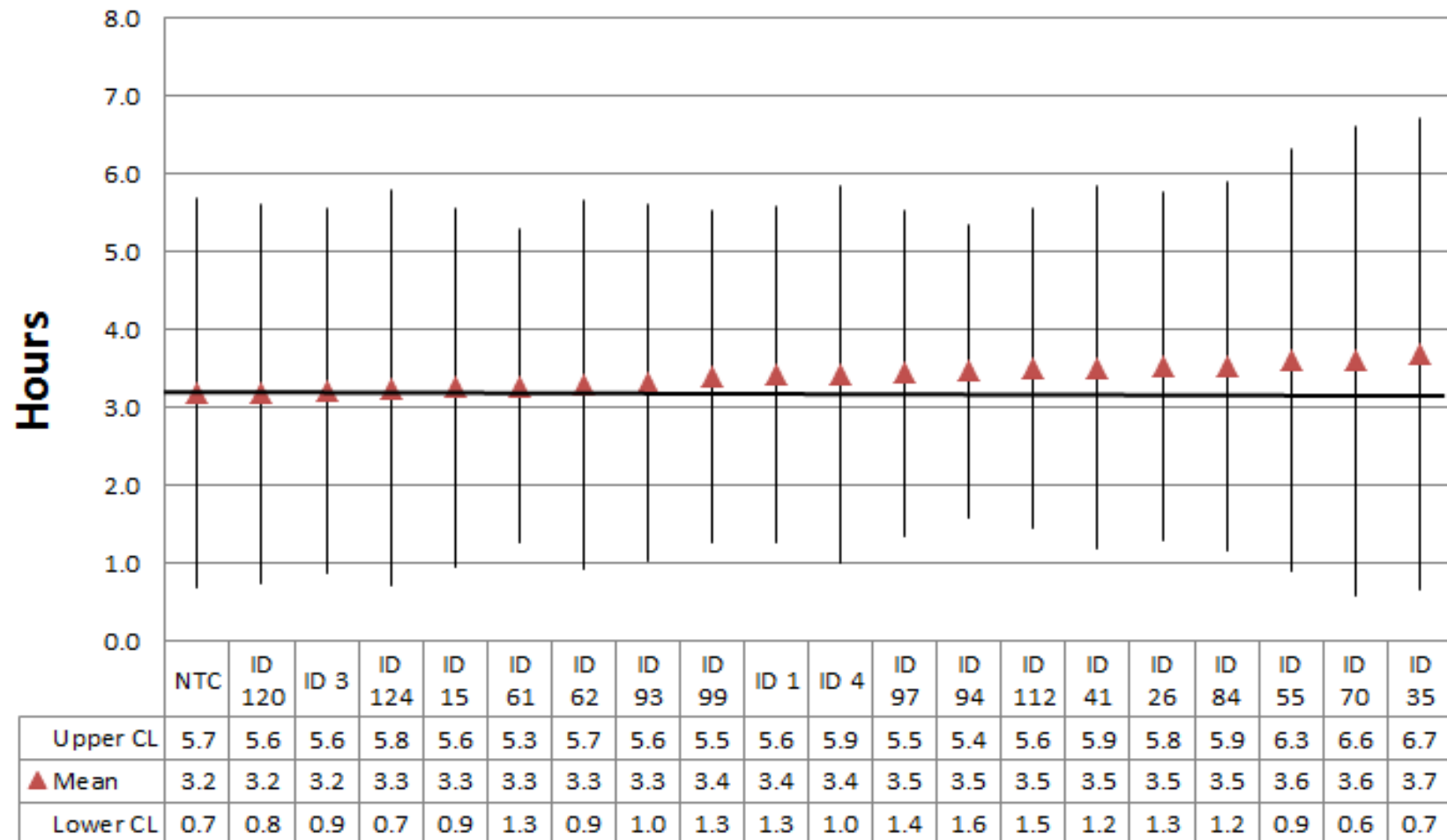
16.6% of data

(Non-Trauma) Hospitals:

76 facilities

40.8% of data

ED Disposition = Transferred
Non-Trauma Centers-
Average ED LOS (Hours)



Indiana Trauma Registry

Statewide Quarter 2 Data Report

April 1, 2015—June 30, 2015

8,605 Incidents

95 Total Hospitals Reporting

Level I and II:

9 facilities

42.6% of data

Level III:

10 facilities

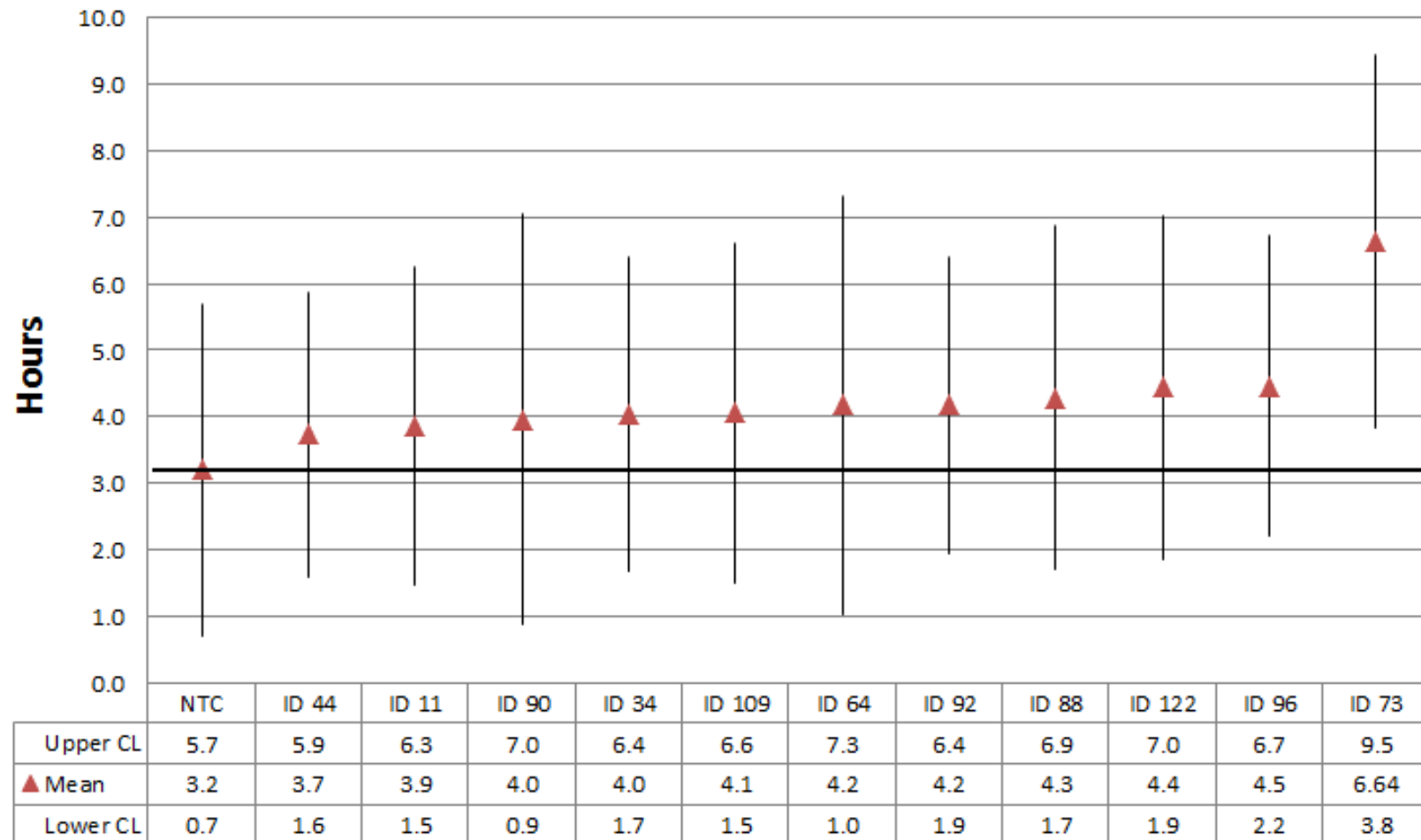
16.6% of data

(Non-Trauma) Hospitals:

76 facilities

40.8% of data

ED Disposition = Transferred Non-Trauma Centers- Average ED LOS (Hours)



Indiana Trauma Registry

Statewide Quarter 2 Data Report

April 1, 2015—June 30, 2015

8,605 Incidents

95 Total Hospitals Reporting

Level I and II: 9 facilities 42.6% of data

Level III: 10 facilities 16.6% of data

(Non-Trauma) Hospitals: 76 facilities 40.8% of data

ED Length of Stay

ED Length of Stay (minutes)				
	Indiana Average	Levels I and II	Level III	NTC
N=	7813	3473	1272	3068
Average	238.4	242.4	229.9	237.3
Std. Deviation	179.8	194.3	140.8	177.1
Minimum	0	3	1	0
Quartile 1	140	128	145.5	147
Median	203	199	205	205
Quartile 3	288	297	282	283
Maximum	2048	2048	1690	1871

ED Disposition

ED Disposition (count)				
	Indiana	Levels I and II	Level III	NTC
Floor Bed	3812	1560	682	1570
ICU	1019	782	93	144
Transferred	1625	30	262	1333
OR	670	438	119	113
Home w/o Services	238	154	62	22
Observation	405	265	97	43
Step-Down	428	207	38	183
Expired	71	31	18	22
AMA	6	3	2	1
Home W/ Services	1	0	0	1
Other	12	4	4	4
NK/NR/NA	318	192	51	75

*A bar graph of ED Disposition is found on page 2.

*A bar graph of ED Length of Stay is found on page 2.

*A Box and Whisker plot of ED LOS is found on page 5.

Indiana Trauma Registry

Statewide Quarter 2 Data Report

April 1, 2015—June 30, 2015

8,605 Incidents

95 Total Hospitals Reporting

Level I and II: 9 facilities 42.6% of data

Level III: 10 facilities 16.6% of data

(Non-Trauma) Hospitals: 76 facilities 40.8% of data

ED Length of Stay by ISS

ED Length of Stay (minutes)								
ISS Category	Indiana Average	Indiana Average	Levels I and II	Levels I and II	Level III	Level III	Non-Trauma Centers	Non-Trauma Centers
	Counts	Minutes	Counts	Minutes	Counts	Minutes	Counts	Minutes
1-8	3938	248.2	1614	258.4	666	233.8	1658	244.1
9-15	2935	239.5	1222	246.0	499	232.2	1214	236.0
16-24	480	219.8	330	227	57	215.7	93	196.6
25-44	337	158.3	275	162.2	28	139.5	34	141.7
45-74	19	103.4	17	108.8	0	-	2	62.5
75	8	95.9	8	95.9	0	-	0	-
No ISS	94	218.4	7	300.1	22	212.4	94	211.6

*A Box and Whisker plot of ED Length of Stay by ISS is found on page 5.

Indiana Trauma Registry

Statewide Quarter 2 Data Report

April 1, 2015—June 30, 2015

8,605 Incidents

95 Total Hospitals Reporting

Level I and II:

9 facilities

42.6% of data

Level III:

10 facilities

16.6% of data

(Non-Trauma) Hospitals:

76 facilities

40.8% of data

ED Disposition (count) by ISS Category

	Floor Bed	ICU	Transferred	OR	Observation	NK/NR/NA	Step-Down	Home w/o Services	Expired	Other	AMA	Home w/ Services	Total
1-8	1935	288	901	306	312	138	207	222	19	11	5	0	4344
9-15	1709	376	545	210	82	156	159	15	8	1	0	1	3262
16-24	101	173	89	60	5	10	45	0	20	1	0	0	504
25-44	27	166	37	81	0	6	14	1	15	00	0	0	347
45-74	0	10	1	7	0	3	0	0	1	0	0	0	22
75	0	3	0	2	0	0	0	0	5	0	0	0	10
NO ISS	40	3	52	4	6	5	3	0	3	0	2	0	116
Total	3812	1019	1625	670	405	318	428	238	71	12	6	1	8605

*Bar graph of ED Disposition by ISS is found on page 25.

Indiana State Department of Health

Indiana Trauma Registry

Hospitals Reporting Trauma Data

Quarter 2, 2015

April 1, 2015 – June 30, 2015

I II Level I and II Trauma Centers

Deaconess Hospital
Eskenazi Health
IU Health - Methodist Hospital
Memorial Hospital of South Bend
Parkview Regional Medical Center
Riley Hospital for Children at IU Health
St. Mary's Medical Center of Evansville
St. Vincent Indianapolis Hospital

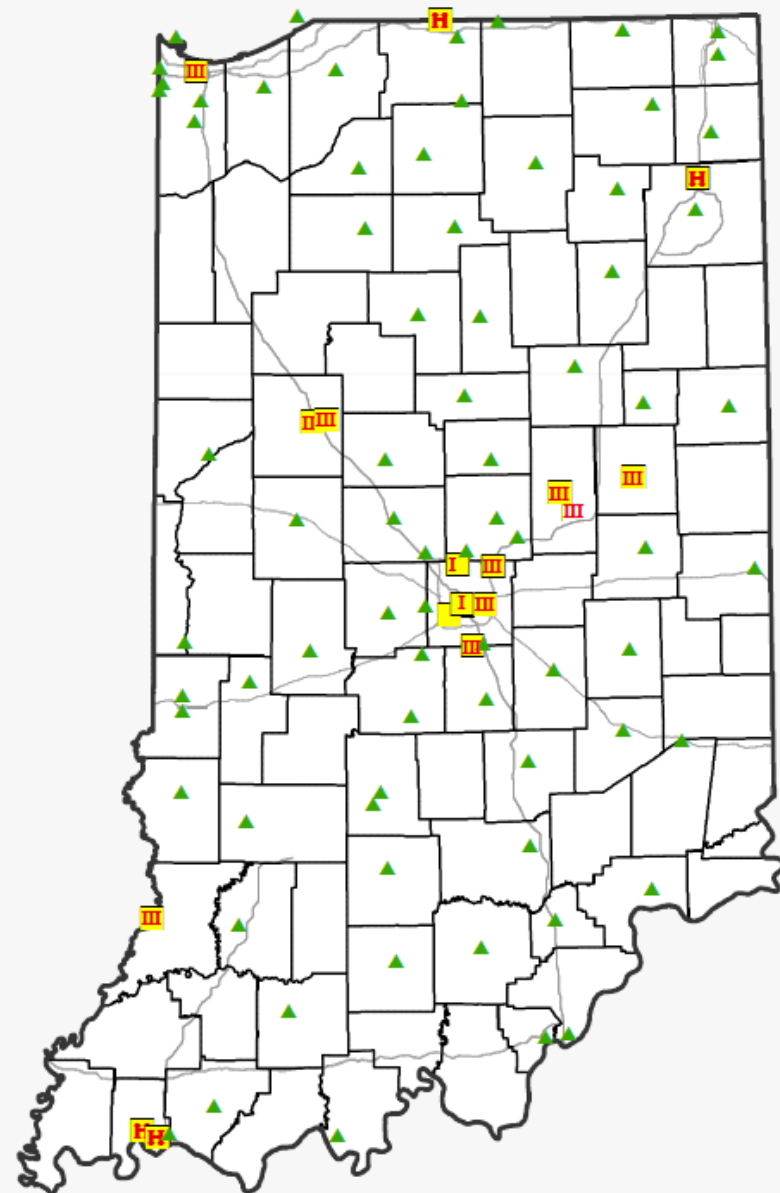
III Level III Trauma Centers

Community Hospital of Anderson
Community Hospital - East
Community Hospital - North
Community Hospital - South
Franciscan St. Elizabeth East Hospital
Good Samaritan Hospital
IU Health - Arnett Hospital
IU Health - Ball Memorial Hospital
Methodist Hospital - Northlake Campus
St. Vincent Anderson Regional Hospital

▲ Non-Trauma Hospitals

76 Non-Trauma Hospitals

Hospital categories include Verified and "In the Process" Trauma Centers



Map Author: ISDH ERC PHG and ISDH Trauma & Injury Prevention - July 2015

Indiana Trauma Registry

Statewide Quarter 2 Data Report

April 1, 2015—June 30, 2015

8,605 Incidents

95 Total Hospitals Reporting

Level I and II:	9 facilities	42.6% of data
Level III:	10 facilities	16.6% of data
(Non-Trauma) Hospitals:	76 facilities	40.8% of data

General Report:

- The caterpillar plots with the anonymous ID's for all patients per hospital may be found on pages 33-39.
- The caterpillar plots with the anonymous ID's for transferred patients per hospital may be found on pages 40-46.
- Reference tables now accompany the graphs for demographic data on pages 29-32.